In [1]:
```
%cd ../../
```

```
/home/jan/FMF/masters
```

In [2]:
```
saved = "ml_hep_sim/analysis/results/cls/"
```

q_0 is used to test $\mu=0$ in a class of model where we assume $\mu \geq 0$. Rejecting $\mu=0$ hypothesis leads to the discovery of a new signal.

Get CLs pipeline and fit

In [3]:
```
from ml_hep_sim.analysis.cls_pipeline import get_cls_pipeline

import matplotlib.pyplot as plt
from ml_hep_sim.plotting.style import style_setup, set_size

import numpy as np

from ml_hep_sim.pipeline.pipeline_loggers import setup_logger

logger = setup_logger(log_name="cls", log_path="ml_pipeline/")

set_size()
style_setup(seaborn_pallete=True)
```

In [4]:
```
use_class = False

pts = 40

cls_pipeline = get_cls_pipeline(pts=pts, lumi=100, use_classifier=use_class,
                                bin_range=(0.5, 1.1) if use_class else (0.01, 3.0),
                                N_gen=10**6, logger=logger, scale_by_alpha=False)
```

```
WARNING:root:available variables: {'lepton pT': 0, 'lepton eta': 1, 'missing energy': 2, 'jet1 pT': 3, 'jet1 eta
': 4, 'jet2 pT': 5, 'jet2 eta': 6, 'jet3 pT': 7, 'jet3 eta': 8, 'jet4 pT': 9, 'jet4 eta': 10, 'm jj': 11, 'm jjj
': 12, 'm lv': 13, 'm jlv': 14, 'm bb': 15, 'm wbb': 16, 'm wwbb': 17}
```

In [5]:
```
if use_class:
    saved += "class_"
else:
    saved += "mbb_"
```

In [6]:
```
saved
```

Out[6]:
```
'ml_hep_sim/analysis/results/cls/mbb_'
```

In [7]:
```
res = cls_pipeline.fit()
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #0: <ml_hep_sim.pipeline.blocks.DatasetBuilderBlock object at
0x7f4b886b86a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1: <ml_hep_sim.pipeline.blocks.ReferenceDataLoaderBlock objec
t at 0x7f4b886b8490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2: <ml_hep_sim.pipeline.blocks.DatasetBuilderBlock object at
0x7f4b70a05520>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3: <ml_hep_sim.pipeline.blocks.ReferenceDataLoaderBlock objec
t at 0x7f4b70a054f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4: <ml_hep_sim.pipeline.blocks.ModelLoaderBlock object at 0x7
f4b70a05550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5: <ml_hep_sim.pipeline.blocks.ModelLoaderBlock object at 0x7
f4b887151c0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6: <ml_hep_sim.pipeline.blocks.DataGeneratorBlock object at 0
x7f4b886b8730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:Generating 1000000 examples in 10 chunks of 100000 examples each using
MADEMOGFlowModel.
100%|
| 10/10 [00:05<00:00,  1.89it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #7: <ml_hep_sim.pipeline.blocks.GeneratedDataVerifierBlock obj
ect at 0x7f4b886b85e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:Generated data check...
INFO:ml_hep_sim.pipeline.pipeline_loggers:nan OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:neg-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf or neg-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf or neg-inf or nan OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #8: <ml_hep_sim.pipeline.blocks.ModelLoaderBlock object at 0x7
f4b886b8670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #9: <ml_hep_sim.pipeline.blocks.DataGeneratorBlock object at 0
```

```
x7f4b886b8790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:Generating 1000000 examples in 10 chunks of 100000 examples each using
MADEMOGFlowModel.
100%|
| 10/10 [00:05<00:00,  1.90it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #10: <ml_hep_sim.pipeline.blocks.GeneratedDataVerifierBlock ob
ject at 0x7f4b886b88b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:Generated data check...
INFO:ml_hep_sim.pipeline.pipeline_loggers:nan OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:neg-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf or neg-inf OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:pos-inf or neg-inf or nan OK
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #11: <ml_hep_sim.pipeline.blocks.ClassifierRunnerBlock object
at 0x7f4b70a05970>!
100%|
| 10/10 [00:00<00:00, 6048.90it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #12: <ml_hep_sim.pipeline.blocks.ClassifierRunnerBlock object
at 0x7f4b70a05940>!
100%|
| 10/10 [00:00<00:00, 5726.01it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #13: <ml_hep_sim.pipeline.blocks.ClassifierRunnerBlock object
at 0x7f4b70a059a0>!
100%|
| 10/10 [00:00<00:00, 363.46it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #14: <ml_hep_sim.pipeline.blocks.ClassifierRunnerBlock object
at 0x7f4b70a059d0>!
100%|
| 10/10 [00:00<00:00, 374.83it/s]
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #15: <ml_hep_sim.pipeline.blocks.CutBlock object at 0x7f4adaf6
2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #16: <ml_hep_sim.pipeline.blocks.CutBlock object at 0x7f4b8816
8fa0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #17: <ml_hep_sim.pipeline.blocks.CutBlock object at 0x7f4b8816
f2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #18: <ml_hep_sim.pipeline.blocks.CutBlock object at 0x7f4b8871
5e80>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #19: <ml_hep_sim.pipeline.blocks.CutByIndexBlock object at 0x7
f4b88715e20>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #20: <ml_hep_sim.pipeline.blocks.CutByIndexBlock object at 0x7
f4b88715dc0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #21: <ml_hep_sim.pipeline.blocks.CutByIndexBlock object at 0x7
f4b88715ac0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #22: <ml_hep_sim.pipeline.blocks.CutByIndexBlock object at 0x7
f4b88715bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #23: <ml_hep_sim.pipeline.blocks.RedoRescaleDataBlock object a
t 0x7f4b88715f40>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #24: <ml_hep_sim.pipeline.blocks.RedoRescaleDataBlock object a
t 0x7f4b886b8580>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #25: <ml_hep_sim.pipeline.blocks.RedoRescaleDataBlock object a
t 0x7f4b886b86d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #26: <ml_hep_sim.pipeline.blocks.RedoRescaleDataBlock object a
t 0x7f4b886b84c0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #27: <ml_hep_sim.pipeline.blocks.VariableExtractBlock object a
t 0x7f4b70a056a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #28: <ml_hep_sim.pipeline.blocks.VariableExtractBlock object a
t 0x7f4b70a05760>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #29: <ml_hep_sim.pipeline.blocks.VariableExtractBlock object a
t 0x7f4b70a05b20>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #30: <ml_hep_sim.pipeline.blocks.VariableExtractBlock object a
t 0x7f4b70a05be0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #31: <ml_hep_sim.analysis.utils.SigBkgBlock object at 0x7f4b70
a05af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #32: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #33: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #34: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05e20>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #35: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #36: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #37: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05dc0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #38: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #39: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #40: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #41: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05ee0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #42: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05e80>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #43: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05ca0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #44: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05f40>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #45: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #46: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05fa0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #47: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #48: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b70a05f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #49: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b70a05b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #50: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d040>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #51: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d0a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #52: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d100>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #53: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d160>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #54: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d1c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #55: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d220>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #56: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d280>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #57: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d2e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #58: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d340>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #59: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d3a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #60: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d400>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #61: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d460>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #62: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d4c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #63: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d520>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #64: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d580>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #65: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d5e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #66: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d640>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #67: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d6a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #68: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d700>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #69: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d760>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #70: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d7c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #71: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d820>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #72: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d880>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #73: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d8e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #74: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099d940>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #75: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099d9a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #76: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099da00>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #77: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099da60>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #78: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099dac0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #79: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099db20>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #80: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099db80>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #81: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099dbe0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #82: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099dc40>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #83: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099dca0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #84: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099dd00>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #85: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099dd60>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #86: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099ddc0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #87: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099de20>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #88: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099de80>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #89: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099dee0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #90: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b7099df40>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #91: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b7099dfa0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #92: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b709a5040>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #93: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b709a50a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #94: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b709a5100>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #95: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b709a5160>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #96: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b709a51c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #97: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b709a5220>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #98: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamplesL
umi object at 0x7f4b709a5280>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #99: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7f
4b709a52e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5340>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a53a0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5400>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5460>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b709a54c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5520>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5580>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a55e0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b88715ee0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70a055b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b886b87c0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4adaf628b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4adaf624f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4adaf62ac0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4adaf62ee0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4adaf62670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4adaf62580>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4adaf62c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a56d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a57f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a58b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a59d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709a5f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709a5fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b00d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b01f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b02b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b03d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b04f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b05b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
```

```
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b06d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b07f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b08b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b09d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b0f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b0fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b70d0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b71f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b72b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b73d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b74f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b75b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b76d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b77f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b78b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b79d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b709b7b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709b7f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709b7fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c00d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c01f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c02b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c03d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c04f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c05b0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c06d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c07f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c08b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c09d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709c0f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709c0fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
```

```
f4b709ca070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709ca970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709ca9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709caa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709caa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709caaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709cabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709cac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709cad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709cadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709caeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709caf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709caf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709cafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d20d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d21f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d22b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d23d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d24f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
```

```
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d25b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d26d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d27f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d28b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d29d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709d2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709d2fd0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709da970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709da9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709daa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b709daa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709daaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709dabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709dac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709dad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709dadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709daeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709daf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709daf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709dafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709650d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709651f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709652b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709653d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709654f0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709655b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709656d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709657f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709658b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709659d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70965eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
```

```
f4b70965f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70965fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096d970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096d9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096da30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096da90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096daf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096db50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096dbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096dc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096dc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096dcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096dd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096dd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096ddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096de50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096deb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096df10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7096df70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7096dfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709760d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709761f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709762b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709763d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
```

```
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709764f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709765b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709766d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709767f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709768b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709769d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976f10>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70976f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70976fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097f910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097f970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b7097f9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097fa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097faf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097fbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097fc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097fd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097fdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097fe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097feb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097ff10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7097ff70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7097ffd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709870d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709871f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709872b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709873d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987430>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709874f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709875b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709876d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709877f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709878b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709879d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
```

```
f4b70987eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70987f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70987fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709900d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709901f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709902b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709903d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709904f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709905b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709906d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709907f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709908b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709909d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70990f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70990fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
```

```
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099b970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099b9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099ba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099ba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099baf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099bbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099bc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099bd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099bdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099be50>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099beb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7099bf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7099bfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709220d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709221f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709222b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709223d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709224f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709225b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709226d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709227f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709228b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b70922910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709229d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70922f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70922fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b370>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092b970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092b9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092ba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092ba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092baf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092bbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092bc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092bd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
```

```
f4b7092bdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092be50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092beb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7092bf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7092bfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709350d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709351f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709352b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709353d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709354f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709355b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709356d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709357f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709358b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709359d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70935f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70935fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
```

```
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093d970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093d9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093da30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093da90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093daf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093db50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093dbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093dc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093dc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093dcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093dd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093dd90>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093ddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093de50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093deb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093df10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b7093df70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b7093dfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709450d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709451f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709452b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709453d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709454f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709455b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709456d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709457f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
```

```
Lumi object at 0x7f4b70945850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709458b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709459d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70945f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70945fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709500d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709501f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709502b0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709503d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709504f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709505b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709506d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709507f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709508b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709509d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
```

```
f4b70950d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70950f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70950fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709580d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709581f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709582b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709583d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709584f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709585b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709586d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709587f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b709588b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b709589d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b70958f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b70958fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e1070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e10d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e1130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e1190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e11f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e1250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
```

```
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e12b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e1310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e1370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e13d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e1430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e1490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e14f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSamples
Lumi object at 0x7f4b708e1550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x7
f4b708e15b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e16d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e17f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e18b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e19d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1cd0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708e1f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708e1fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b708ea790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ea970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ea9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eaa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eaa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eaaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ead30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ead90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eaeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eaf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708eaf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708eafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f20d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f21f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b708f2250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f22b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f23d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f24f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f25b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f26d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f27f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f28b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f29d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b708f2eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708f2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708f2fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fb970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fb9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbb50>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708fbf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708fbfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709050d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709051f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709052b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709053d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709054f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709055b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b709056d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709057f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709058b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709059d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70905f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70905fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d130>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090d970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090d9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090da30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090da90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090daf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090db50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b7090dbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090dc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090dc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090dcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090dd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090dd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090ddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090de50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090deb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090df10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7090df70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7090dfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709160d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709161f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709162b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709163d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709164f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709165b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709166d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709167f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b709168b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b709169d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70916f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70916fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
```

```
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089f970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089f9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089fa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089faf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fb50>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089fbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089fc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089fd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089fdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089fe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089feb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089ff10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7089ff70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7089ffd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a80d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a81f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a82b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a83d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a84f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a85b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b708a8610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a86d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a87f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a88b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a89d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708a8f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708a8fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0070>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b00d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b01f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b02b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b03d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b04f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b05b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b06d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b07f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b08b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b09d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b708b0af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708b0f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708b0fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ba970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ba9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708baa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708baa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708baaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708babb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708bac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708bad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708badf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708baeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708baf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708baf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708bafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
```

```
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c30d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c31f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c32b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c33d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c34f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c35b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c36d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c37f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c38b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c39d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3a90>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708c3f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708c3fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b708cc550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cc970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cc9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cca30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cca90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ccb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ccc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cccd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ccd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708cce50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708cceb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ccf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708ccf70>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708ccfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d40d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d41f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d42b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d43d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d44f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d45b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d46d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d47f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d48b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d49d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b708d4a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70a05c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708d4f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708d4fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085d970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085d9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085da30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085da90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085daf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085db50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085dbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085dc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085dc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085dcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085dd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085dd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085ddf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085de50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085deb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
```

```
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085df10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085df70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085dfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708660d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708661f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708662b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708663d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708664f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708665b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708666d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708667f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708668b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866970>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708669d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70866f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70866fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708700d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708701f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708702b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708703d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b70870430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708704f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708705b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708706d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708707f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708708b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708709d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870e50>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70870f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70870fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708780d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708781f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708782b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708783d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708784f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708785b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708786d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708787f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708788b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b70878910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708789d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70878f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70878fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708810d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708811f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708812b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708813d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708814f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708815b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708816d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708817f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708818b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708819d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
```

```
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70881f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70881fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a8b0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088a970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088a9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088aa30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088aa90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088aaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088ab50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088abb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088ac10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088ac70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088acd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088ad30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088ad90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088adf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088ae50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088aeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088af10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7088af70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7088afd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708930d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708931f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708932b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b70893370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708933d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708934f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708935b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708936d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708937f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708938b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708939d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893d90>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70893f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70893fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b7081c850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081c970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081c9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081ca30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081ca90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081caf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081cb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081cbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081cc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081cc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081ccd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081cd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081cd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081cdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081ce50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081ceb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081cf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7081cf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7081cfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708250d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708251f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708252b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708253d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708254f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708255b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708256d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708257f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708258b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708259d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
```

```
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70825f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70825fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e7f0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7082ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7082efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708370d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708371f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #1999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b708372b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708373d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708374f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708375b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708376d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708377f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708378b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708379d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837cd0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70837f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70837fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b7083f790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083f970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083f9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083fa30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fa90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083faf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083fbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083fc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083fd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083fdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083fe50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083feb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083ff10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7083ff70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7083ffd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848100>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708481f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708482b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708483d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708484f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708485b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708486d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708487f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708488b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708489d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
```

```
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70848f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70848fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708510d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708511f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708512b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708513d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708514f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708515b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708516d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708517f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b708518b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851970>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b708519d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70851f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70851fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085b970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085b9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085ba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085ba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085baf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085bbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085bc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085bd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085bdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085be50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085beb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b7085bf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b7085bfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc70d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc71f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc72b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc73d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc74f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc75b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc76d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc77f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc78b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc79d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
```

```
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfc7f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfc7fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf6d0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcf970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcf9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcfe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcfeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcff10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfcff70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfcffd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd90d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bfd9190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd91f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd92b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd93d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd94f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd95b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd96d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd97f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd98b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd99d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9bb0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfd9f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfd9fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe20d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe21f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe22b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe23d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe24f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe25b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bfe2670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe26d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe27f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe28b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe29d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfe2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfe2fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfea970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfea9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeaa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeaa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeaaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
```

```
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfead30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfead90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeaeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeaf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfeaf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfeafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff40d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff41f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff42b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff43d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff44f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff45b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4610>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff46d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff47f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff48b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff49d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bff4f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bff4fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bffd0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffd970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffd9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffda30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffda90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdaf0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffde50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bffdf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bffdfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf850d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf851f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf852b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf853d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf854f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bf855b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf856d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf857f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf858b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf859d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf85f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf85fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8e970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8e9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8ea30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ea90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
```

```
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8eaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8eb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8ebb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ec10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8ec70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ecd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8ed30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ed90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8edf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ee50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8eeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8ef10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf8ef70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf8efd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf970d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf971f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf972b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf973d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf974f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97550>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf975b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf976d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf977f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf978b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf979d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf97f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf97f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bf97fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa00d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa01f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa02b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa03d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa04f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa05b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa06d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa07f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa08b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa09d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0a30>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfa0f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfa0fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bfaa4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaa970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaa9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaaa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaaa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaaaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaaeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaaf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfaaf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfaafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb20d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb21f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb22b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb23d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb24f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb25b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb26d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb27f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb28b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb29d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
```

```
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfb2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfb2fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba490>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfba970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfba9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbaa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbaa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbaaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbaeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bfbaf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bfbaf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bfbafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf440d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf441f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf442b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf443d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf444f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf445b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf446d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf447f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf448b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44970>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf449d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf44f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf44fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bf4d430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4d970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4d9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4da30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4da90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4daf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4db50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4dbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4dc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4dc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4dcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4dd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4dd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4ddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4de50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4deb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4df10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf4df70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf4dfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf550d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf551f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf552b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf553d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf554f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf555b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf556d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf557f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf558b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
```

```
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf559d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf55f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf55fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f3d0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5f970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5f9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5fa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5fa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5faf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5fb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5fbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5fc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5fc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5fcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5fd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5fd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5fdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bf5fe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5feb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5ff10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf5ff70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf5ffd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf680d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf681f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf682b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf683d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf684f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf685b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf686d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf687f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf688b0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf689d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #2999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf68f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf68fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf700d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf701f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf702b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bf70370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf703d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf704f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf705b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf706d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf707f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf708b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf709d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf70f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf70fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf790d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf791f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf792b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf793d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf794f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf795b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf796d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf797f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
```

```
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf798b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf799d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf79f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf79fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf010d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf011f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf012b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01310>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf013d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf014f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf015b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf016d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf017f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf018b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf019d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bf01d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf01f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf01fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b7f0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0b970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0b9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0ba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0ba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0baf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0bbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0bc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0bd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0bdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0be50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0beb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf0bf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf0bfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf150d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf151f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf152b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf153d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bf15490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf154f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf155b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf156d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf157f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf158b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf159d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf15f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf15fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bf1c130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1c970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1c9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1ca30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1ca90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1caf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1cb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1cbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1cc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1cc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1ccd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1cd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1cd90>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1cdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1ce50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1ceb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1cf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf1cf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf1cfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf250d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf251f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf252b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf253d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf254f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf255b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf256d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf257f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf258b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf259d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25a30>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf25f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf25fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=10.0, B_mc=1000 and alpha=0.01 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
```

```
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2f970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2f9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2fa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2faf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2fbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2fc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2fd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2fdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2fe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2feb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2ff10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf2ff70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf2ffd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf380d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38190>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf381f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf382b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf383d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf384f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf385b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf386d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf387f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf388b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf389d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bf38c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bf38f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bf38fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc00d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc01f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc02b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc03d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=12.307692307692308, B_mc=1000 and alpha=0.012307692
307692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc04f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc05b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0670>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc06d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc07f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc08b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc09d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbc0f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbc0fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bbca130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbca970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbca9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcaa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcaa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcaaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcabb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcacd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcadf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcaeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcaf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbcaf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbcafd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd20d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd21f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd22b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=14.615384615384617, B_mc=1000 and alpha=0.014615384
615384617 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd23d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd24f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd25b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
```

```
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd26d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd27f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd28b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd29d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbd2f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbd2fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb0d0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdb970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdb9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bbdbb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbdbf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbdbfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe40d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=16.923076923076923, B_mc=1000 and alpha=0.016923076
923076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe41f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe42b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe43d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe44f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe45b0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe46d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe47f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe48b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe49d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbe4f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbe4fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bbed070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbed970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbed9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbeda30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbeda90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbeddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbede50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbedf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbedfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=19.230769230769234, B_mc=1000 and alpha=0.019230769
230769232 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf60d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf61f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf62b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf63d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf64f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
```

```
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf65b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf66d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf67f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf68b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf69d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbf6f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbf6fd0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb800d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb801f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb802b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb803d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb804f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb805b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb806d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb807f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb808b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb809d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bb80a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=21.53846153846154, B_mc=1000 and alpha=0.0215384615
3846154 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb80f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb80fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb870d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb871f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb872b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb873d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb874f0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb875b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb876d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb877f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb878b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb879d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb87eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb87f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb87fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb900d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb901f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb902b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb903d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb904f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb905b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb906d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb907f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb908b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb909d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=23.84615384615385, B_mc=1000 and alpha=0.0238461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb90f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb90fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
```

```
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9a970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9a9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9aa30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9aa90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9aaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9ab50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9abb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9ac10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9ac70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9acd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9ad30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9ad90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9adf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9ae50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9aeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9af10>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb9af70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb9afd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba30d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba31f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba32b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba33d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba34f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba35b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba36d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba37f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba38b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bba39d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=26.153846153846153, B_mc=1000 and alpha=0.026153846
153846153 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bba3f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bba3fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab430>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbab970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbab9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbaba30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbaba90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabdf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabe50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bbabeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbabf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbabfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb50d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb51f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb52b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb53d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb54f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb55b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb56d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb57f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb58b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb59d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=28.461538461538463, B_mc=1000 and alpha=0.028461538
46153846 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbb5f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbb5fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd1f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd2b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd3d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
```

```
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd4f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd5b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd6d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd7f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd8b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbd970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbd9d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbda30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbda90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdaf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdb50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdbb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdc10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #3999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdc70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdcd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdd30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdd90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbddf0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbde50>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdeb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdf10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bbbdf70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bbbdfd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb460d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb461f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46250>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb462b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46310>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46370>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb463d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46430>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46490>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb464f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46550>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb465b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46610>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb466d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46730>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46790>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb467f0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46850>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=30.76923076923077, B_mc=1000 and alpha=0.0307692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb468b0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bb46910>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46970>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb469d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46a30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46a90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46af0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46b50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46bb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46c10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46c70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46d30>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46d90>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46df0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46e50>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46eb0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46f10>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb46f70>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb46fd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e070>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e0d0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e130>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e190>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70a05b80>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70a05cd0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70a05670>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70a058b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b70a05d00>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b70a05d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e1c0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb4eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb4ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb4efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb590d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb591f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb592b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb593d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=33.07692307692308, B_mc=1000 and alpha=0.0330769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb594f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb595b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb596d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb597f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb598b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb599d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb59f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb59fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
```

```
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb620d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb621f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb622b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb623d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb624f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb625b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb626d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb627f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb628b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb629d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62af0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb62f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb62fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=35.38461538461539, B_mc=1000 and alpha=0.0353846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bb6b5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6b970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6b9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6ba30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6ba90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6baf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6bbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6bc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6bd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6bdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6be50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6beb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb6bf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb6bfd0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb740d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb741f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb742b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb743d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb744f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb745b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb746d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb747f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb748b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb749d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb74a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb74f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb74fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=37.6923076923077, B_mc=1000 and alpha=0.03769230769
23077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7c970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7c9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7ca30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7ca90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7caf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7cb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7cbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7cc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7cc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7ccd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7cd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7cd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7cdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7ce50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7ceb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7cf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb7cf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb7cfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb050d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb051f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bb052b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb053d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb054f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb055b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb056d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb057f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb058b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb059d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb05f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb05f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=40.0, B_mc=1000 and alpha=0.04 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb05fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb0e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb0ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb0efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb180d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb181f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb182b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb183d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb184f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb185b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb186d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb187f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb188b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb189d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=42.30769230769231, B_mc=1000 and alpha=0.0423076923
0769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
```

```
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb18f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb18fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb200d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb201f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb202b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb203d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb204f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb205b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb206d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb207f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb208b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20970>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb209d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb20f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb20fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb280d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb281f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb282b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb283d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bb28430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb284f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb285b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb286d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb287f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb288b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb289d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=44.61538461538462, B_mc=1000 and alpha=0.0446153846
1538462 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28e50>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb28f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb28fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb320d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb321f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb322b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb323d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb324f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb325b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb326d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb327f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb328b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bb32910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb329d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb32f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb32fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3b970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3b9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3ba30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3ba90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3baf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=46.92307692307693, B_mc=1000 and alpha=0.0469230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3bbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3bc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3bd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3bdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
```

```
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3be50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3beb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bb3bf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bb3bfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac30d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac31f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac32b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac33d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac34f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac35b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac36d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac37f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac38b0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac39d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bac3f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bac3fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bacd370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacd970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=49.23076923076924, B_mc=1000 and alpha=0.0492307692
3076924 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacd9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacda30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacda90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdd90>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacddf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacde50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bacdf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bacdfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad60d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad61f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad62b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad63d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad64f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad65b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad66d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad67f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5bad6850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad68b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad69d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bad6f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bad6fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=51.53846153846155, B_mc=1000 and alpha=0.0515384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bade970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bade9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badeaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badeb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baded30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
```

```
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baded90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badedf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badeeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5badef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5badefd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae70d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae71f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae72b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae73d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae74f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae75b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae76d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae77f0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae78b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae79d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bae7f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bae7fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf10d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf11f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5baf12b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf13d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf14f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf15b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=53.84615384615385, B_mc=1000 and alpha=0.0538461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf16d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf17f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf18b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf19d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1cd0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf1f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf1fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf90d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf91f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf92b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf93d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf94f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf95b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf96d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5baf9790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf97f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf98b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf99d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baf9f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baf9fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba830d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba831f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba832b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba833d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba834f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=56.15384615384616, B_mc=1000 and alpha=0.0561538461
5384616 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba835b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba836d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba837f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba838b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba839d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
```

```
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba83f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba83fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b730>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8b970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8b9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8ba30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8ba90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8baf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8bbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8bc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8bd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8bdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8be50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8beb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba8bf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba8bfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba930d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5ba931f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba932b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=58.46153846153847, B_mc=1000 and alpha=0.0584615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba933d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba934f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba935b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #4999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba936d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba937f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba938b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba939d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93c10>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba93f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba93fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5ba9d6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9d970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9d9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9da30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9da90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9daf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9db50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9dbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9dc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9dc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9dcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9dd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9dd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9ddf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9de50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9deb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9df10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba9df70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba9dfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa70d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa71f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=60.769230769230774, B_mc=1000 and alpha=0.060769230
76923078 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa72b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa73d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa74f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa75b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa76d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa77f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa78b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa79d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
```

```
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baa7f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baa7fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae670>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baae970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baae9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaeaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaeb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaedf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaeeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5baaef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5baaefd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=63.07692307692309, B_mc=1000 and alpha=0.0630769230
7692309 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab80d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5bab8130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab81f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab82b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab83d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab84f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab85b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab86d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab87f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab88b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab89d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8b50>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5bab8f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5bab8fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba410d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba411f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba412b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba413d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba414f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba415b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5ba41610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba416d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba417f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba418b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba419d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=65.38461538461539, B_mc=1000 and alpha=0.0653846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba41f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba41fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba490d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba491f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba492b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba493d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba494f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba495b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba496d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba497f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba498b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba499d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
```

```
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba49f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba49fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba520d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba521f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba522b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba523d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba524f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba525b0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba526d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba527f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba528b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba529d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=67.6923076923077, B_mc=1000 and alpha=0.06769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba52f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba52fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5ba5b0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5b970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5b9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5ba30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5ba90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5baf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5bbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5bc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5bd30>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5bdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5be50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5beb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba5bf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba5bfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba640d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba641f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba642b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba643d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba644f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba645b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba646d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba647f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba648b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba649d0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=70.0, B_mc=1000 and alpha=0.07 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba64f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba64fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e4f0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5432: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5433: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5434: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5435: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5436: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5437: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5438: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5439: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5440: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba6eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5441: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5442: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5ba6ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5443: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba6efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5444: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5445: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba750d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5446: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5447: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5448: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba751f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5449: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5450: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba752b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5451: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5452: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5453: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba753d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5454: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5455: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5456: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba754f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5457: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5458: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba755b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5459: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5460: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5461: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba756d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5462: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5463: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5464: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba757f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5465: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5466: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba758b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5467: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5468: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5469: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba759d0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5470: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=72.3076923076923, B_mc=1000 and alpha=0.07230769230
769231 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5471: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5472: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5473: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5474: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5475: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5476: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5477: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5478: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5479: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5480: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5481: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5482: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5483: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5484: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba75f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5485: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba75fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5486: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5487: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5488: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5489: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5490: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5491: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5492: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5493: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5494: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5495: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5496: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5497: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5ba7e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5498: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5499: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5500: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5501: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5502: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5503: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5504: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5505: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5506: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5507: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5508: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5509: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5510: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5511: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5512: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5513: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5514: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5515: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5516: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5517: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5518: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5519: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5520: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5521: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5522: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5523: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5524: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5525: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5526: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba7ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5527: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba7efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5528: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5529: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba080d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5530: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5531: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5532: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba081f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5533: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5534: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba082b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5535: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5536: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5537: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba083d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5538: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5539: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5540: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba084f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5541: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5542: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba085b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5543: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5544: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5545: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba086d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5546: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5547: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5548: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba087f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5549: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5550: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba088b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=74.61538461538461, B_mc=1000 and alpha=0.0746153846
1538461 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5551: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5552: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
```

```
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5553: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba089d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5554: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5555: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5556: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5557: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5558: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5559: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5560: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5561: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5562: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5563: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5564: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5565: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5566: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5567: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5568: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba08f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5569: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba08fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5570: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5571: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba110d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5572: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5573: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5574: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba111f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5575: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5576: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba112b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5577: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5578: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5579: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba113d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5580: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11430>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5581: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5582: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba114f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5583: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5584: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba115b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5585: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5586: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5587: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba116d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5588: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5589: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5590: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba117f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5591: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5592: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba118b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5593: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5594: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5595: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba119d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5596: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5597: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5598: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5599: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5600: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5601: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5602: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5603: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5604: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5605: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5606: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5607: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5608: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5ba11eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5609: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5610: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba11f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5611: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba11fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5612: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5613: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba190d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5614: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5615: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5616: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba191f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5617: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5618: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba192b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5619: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5620: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5621: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba193d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5622: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5623: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5624: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba194f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5625: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5626: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba195b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5627: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5628: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5629: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba196d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5630: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=76.92307692307693, B_mc=1000 and alpha=0.0769230769
2307693 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5631: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5632: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba197f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5633: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5634: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba198b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5635: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19910>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5636: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5637: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba199d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5638: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5639: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5640: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5641: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5642: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5643: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5644: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5645: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5646: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5647: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5648: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5649: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5650: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5651: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5652: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba19f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5653: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba19fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5654: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5655: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba230d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5656: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5657: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5658: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba231f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5659: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5660: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba232b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5661: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5662: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5663: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5ba233d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5664: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5665: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5666: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba234f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5667: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5668: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba235b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5669: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5670: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5671: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba236d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5672: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5673: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5674: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba237f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5675: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5676: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba238b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5677: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5678: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5679: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba239d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5680: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5681: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5682: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5683: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5684: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5685: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5686: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5687: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5688: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5689: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5690: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5691: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5692: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5693: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5694: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba23f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5695: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba23fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5696: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5697: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5698: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5699: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5700: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5701: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5702: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5703: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5704: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5705: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5706: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5707: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5708: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5709: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5710: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=79.23076923076923, B_mc=1000 and alpha=0.0792307692
3076923 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5711: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5712: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5713: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5714: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5715: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5716: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5717: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5718: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
```

```
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5719: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5720: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2b970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5721: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2b9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5722: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2ba30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5723: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2ba90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5724: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2baf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5725: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5726: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2bbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5727: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5728: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2bc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5729: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5730: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2bd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5731: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5732: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2bdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5733: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2be50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5734: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2beb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5735: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5736: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba2bf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5737: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba2bfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5738: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5739: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba340d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5740: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5741: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5742: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba341f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5743: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5744: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba342b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5745: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5746: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34370>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5747: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba343d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5748: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5749: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5750: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba344f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5751: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5752: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba345b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5753: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5754: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5755: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba346d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5756: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5757: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5758: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba347f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5759: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5760: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba348b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5761: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5762: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5763: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba349d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5764: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5765: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5766: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5767: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5768: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5769: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5770: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5771: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5772: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5773: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5774: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5ba34df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5775: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5776: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5777: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5778: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba34f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5779: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba34fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5780: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5781: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5782: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5783: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5784: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5785: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5786: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5787: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5788: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5789: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5790: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=81.53846153846155, B_mc=1000 and alpha=0.0815384615
3846155 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5791: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5792: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5793: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5794: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5795: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5796: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5797: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5798: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5799: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5800: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5801: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d850>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5802: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5803: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5804: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3d970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5805: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3d9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5806: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3da30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5807: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3da90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5808: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3daf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5809: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3db50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5810: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3dbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5811: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3dc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5812: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3dc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5813: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3dcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5814: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3dd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5815: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3dd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5816: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3ddf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5817: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3de50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5818: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3deb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5819: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3df10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5820: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5ba3df70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5821: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5ba3dfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5822: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5823: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c60d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5824: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5825: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5826: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c61f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5827: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5828: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c62b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5829: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5b9c6310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5830: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5831: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c63d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5832: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5833: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5834: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c64f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5835: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5836: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c65b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5837: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5838: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5839: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c66d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5840: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5841: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5842: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c67f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5843: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5844: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c68b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5845: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5846: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5847: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c69d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5848: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5849: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5850: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5851: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5852: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5853: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5854: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5855: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5856: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5857: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5858: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5859: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5860: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5861: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5862: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9c6f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5863: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9c6fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5864: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5865: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5866: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5867: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5868: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5869: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5870: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=83.84615384615385, B_mc=1000 and alpha=0.0838461538
4615385 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5871: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5872: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5873: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5874: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5875: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5876: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5877: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5878: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5879: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5880: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5881: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5882: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5883: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5884: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
```

```
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5885: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5886: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5887: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5888: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cf970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5889: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cf9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5890: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfa30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5891: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfa90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5892: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5893: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5894: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5895: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5896: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5897: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5898: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5899: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5900: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5901: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cfe50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5902: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cfeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5903: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cff10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5904: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9cff70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5905: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9cffd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5906: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5907: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d90d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5908: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5909: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5910: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d91f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5911: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5912: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d92b0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5913: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5914: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5915: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d93d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5916: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5917: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5918: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d94f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5919: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5920: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d95b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5921: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5922: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5923: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d96d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5924: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5925: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5926: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d97f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5927: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5928: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d98b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5929: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5930: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5931: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d99d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5932: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5933: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5934: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5935: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5936: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5937: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5938: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5939: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5940: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5b9d9d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5941: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5942: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5943: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5944: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5945: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5946: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9d9f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5947: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9d9fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5948: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5949: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e00d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5950: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=86.15384615384615, B_mc=1000 and alpha=0.0861538461
5384615 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5951: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5952: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e01f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5953: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5954: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e02b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5955: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5956: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5957: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e03d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5958: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5959: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5960: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e04f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5961: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5962: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e05b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5963: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5964: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5965: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e06d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5966: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5967: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0790>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5968: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e07f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5969: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5970: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e08b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5971: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5972: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5973: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e09d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5974: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5975: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5976: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5977: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5978: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5979: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5980: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5981: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5982: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5983: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5984: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5985: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5986: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5987: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5988: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e0f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5989: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e0fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5990: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5991: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e90d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5992: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5993: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5994: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e91f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5995: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5b9e9250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5996: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e92b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5997: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5998: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #5999: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e93d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6000: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6001: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6002: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e94f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6003: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6004: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e95b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6005: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6006: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6007: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e96d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6008: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6009: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6010: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e97f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6011: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6012: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e98b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6013: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6014: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6015: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e99d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6016: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6017: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6018: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6019: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6020: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6021: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6022: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6023: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6024: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6025: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6026: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6027: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6028: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6029: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6030: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9e9f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=88.46153846153847, B_mc=1000 and alpha=0.0884615384
6153847 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6031: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9e9fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6032: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6033: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f30d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6034: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6035: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6036: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f31f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6037: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6038: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f32b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6039: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6040: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6041: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f33d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6042: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6043: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6044: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f34f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6045: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6046: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f35b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6047: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6048: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6049: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f36d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6050: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
```

```
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6051: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6052: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f37f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6053: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6054: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f38b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6055: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6056: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6057: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f39d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6058: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6059: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6060: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6061: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6062: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6063: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6064: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6065: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6066: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6067: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6068: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6069: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6070: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6071: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6072: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9f3f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6073: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9f3fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6074: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6075: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6076: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6077: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6078: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc1f0>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6079: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6080: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6081: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6082: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6083: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6084: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6085: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6086: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6087: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6088: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6089: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6090: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6091: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6092: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6093: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6094: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6095: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6096: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6097: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6098: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fc970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6099: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fc9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6100: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fca30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6101: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fca90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6102: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fcaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6103: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fcb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6104: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fcbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6105: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fcc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6106: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5b9fcc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6107: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fccd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6108: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fcd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6109: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fcd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6110: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fcdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=90.76923076923077, B_mc=1000 and alpha=0.0907692307
6923077 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6111: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fce50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6112: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fceb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6113: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fcf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6114: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9fcf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6115: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9fcfd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6116: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6117: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9840d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6118: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6119: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6120: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9841f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6121: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6122: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9842b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6123: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6124: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6125: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9843d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6126: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6127: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6128: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9844f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6129: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6130: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9845b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6131: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6132: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6133: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9846d0>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6134: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6135: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6136: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9847f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6137: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6138: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9848b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6139: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6140: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6141: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9849d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6142: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6143: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6144: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6145: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6146: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6147: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6148: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6149: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6150: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6151: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6152: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6153: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6154: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6155: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6156: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b984f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6157: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b984fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6158: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6159: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6160: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6161: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5b98e190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6162: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6163: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6164: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6165: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6166: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6167: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6168: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6169: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6170: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6171: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6172: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6173: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6174: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6175: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6176: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6177: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6178: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6179: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6180: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6181: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6182: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98e970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6183: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98e9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6184: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98ea30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6185: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ea90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6186: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98eaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6187: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98eb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6188: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98ebb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6189: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ec10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6190: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98ec70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=93.07692307692308, B_mc=1000 and alpha=0.0930769230
7692308 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6191: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ecd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6192: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98ed30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6193: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ed90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6194: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98edf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6195: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ee50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6196: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98eeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6197: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98ef10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6198: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b98ef70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6199: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b98efd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6200: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6201: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9960d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6202: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6203: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6204: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9961f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6205: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6206: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9962b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6207: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6208: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6209: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9963d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6210: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6211: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6212: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9964f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6213: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6214: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9965b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6215: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6216: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
```

```
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6217: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9966d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6218: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6219: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6220: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9967f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6221: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6222: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9968b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6223: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6224: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6225: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9969d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6226: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6227: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6228: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6229: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6230: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6231: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6232: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6233: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6234: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6235: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6236: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6237: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6238: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6239: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6240: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b996f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6241: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b996fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6242: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6243: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6244: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f130>!
```

```
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6245: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6246: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6247: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6248: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6249: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6250: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6251: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6252: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6253: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6254: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6255: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6256: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6257: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6258: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6259: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6260: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6261: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6262: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6263: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6264: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6265: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6266: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99f970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6267: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99f9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6268: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99fa30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6269: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fa90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6270: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99faf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=95.38461538461539, B_mc=1000 and alpha=0.0953846153
8461539 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6271: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fb50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6272: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5b99fbb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6273: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fc10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6274: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99fc70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6275: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fcd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6276: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99fd30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6277: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fd90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6278: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99fdf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6279: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99fe50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6280: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99feb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6281: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99ff10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6282: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b99ff70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6283: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b99ffd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6284: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6285: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a70d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6286: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6287: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6288: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a71f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6289: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6290: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a72b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6291: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6292: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6293: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a73d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6294: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6295: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6296: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a74f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6297: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6298: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a75b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6299: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7610>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6300: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6301: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a76d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6302: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6303: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6304: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a77f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6305: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6306: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a78b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6307: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6308: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6309: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a79d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6310: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6311: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6312: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6313: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7b50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6314: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6315: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6316: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6317: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6318: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6319: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6320: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6321: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6322: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6323: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6324: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9a7f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6325: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9a7fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6326: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6327: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
```

```
7f4b5b9b10d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6328: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6329: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6330: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b11f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6331: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6332: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b12b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6333: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6334: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6335: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b13d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6336: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6337: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6338: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b14f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6339: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6340: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b15b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6341: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6342: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6343: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b16d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6344: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6345: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6346: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b17f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6347: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6348: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b18b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6349: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6350: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=97.6923076923077, B_mc=1000 and alpha=0.09769230769
230769 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6351: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b19d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6352: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1a30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6353: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1a90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6354: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1af0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6355: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1b50>!
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6356: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1bb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6357: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1c10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6358: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1c70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6359: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1cd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6360: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1d30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6361: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1d90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6362: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1df0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6363: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1e50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6364: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1eb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6365: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1f10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6366: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9b1f70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6367: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9b1fd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6368: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6369: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba0d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6370: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6371: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6372: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba1f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6373: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6374: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba2b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6375: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6376: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6377: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba3d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6378: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6379: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6380: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba4f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6381: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6382: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba5b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6383: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6384: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6385: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba6d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6386: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6387: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6388: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba7f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
```

```
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6389: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6390: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba8b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6391: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba910>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6392: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9ba970>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6393: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9ba9d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6394: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9baa30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6395: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9baa90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6396: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9baaf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6397: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bab50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6398: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9babb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6399: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bac10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6400: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9bac70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6401: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bacd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6402: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9bad30>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6403: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bad90>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6404: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9badf0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6405: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bae50>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6406: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9baeb0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6407: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9baf10>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6408: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9baf70>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6409: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9bafd0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6410: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943070>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6411: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9430d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6412: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943130>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6413: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943190>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6414: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9431f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6415: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943250>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6416: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9432b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6417: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943310>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6418: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943370>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6419: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9433d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6420: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943430>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6421: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943490>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6422: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
```

```
sLumi object at 0x7f4b5b9434f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6423: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943550>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6424: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9435b0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6425: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943610>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6426: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943670>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6427: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b9436d0>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6428: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b943730>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6429: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943790>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6430: <ml_hep_sim.analysis.hists_pipeline.MakeHistsFromSample
sLumi object at 0x7f4b5b9437f0>!
DEBUG:ml_hep_sim.pipeline.pipeline_loggers:considering: S_mc=100.0, B_mc=1000 and alpha=0.1 with 100.0 lumi
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6431: <ml_hep_sim.analysis.cls_pipeline.CLsBlock object at 0x
7f4b5b943850>!
INFO:ml_hep_sim.pipeline.pipeline_loggers:fitting #6432: <ml_hep_sim.analysis.cls_pipeline.CLsBlockResultsParser
object at 0x7f4b886b84f0>!
```

In [8]:
```
parsed_res = res.pipes[-1].parsed_results
mc_res = parsed_res["mc_res"]
ml_res = parsed_res["ml_res"]
```

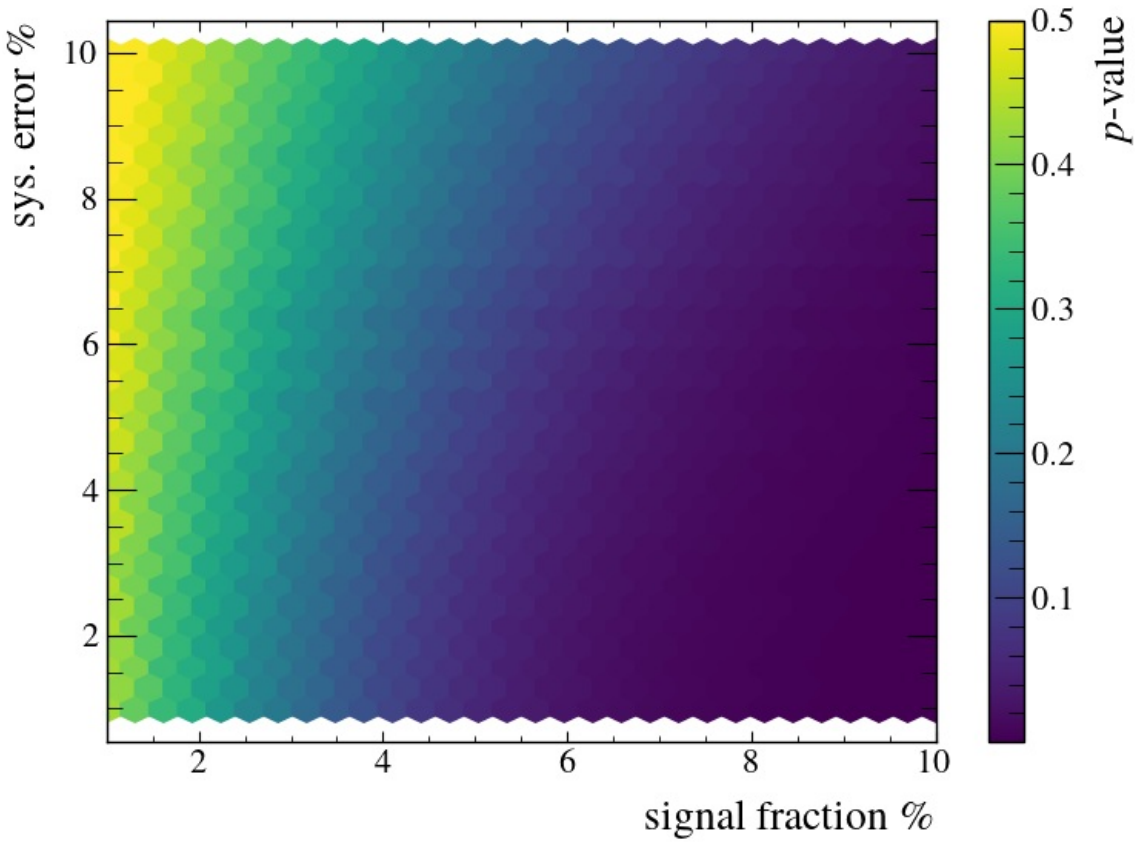
In [9]:
```
ml_res
```

Out[9]:

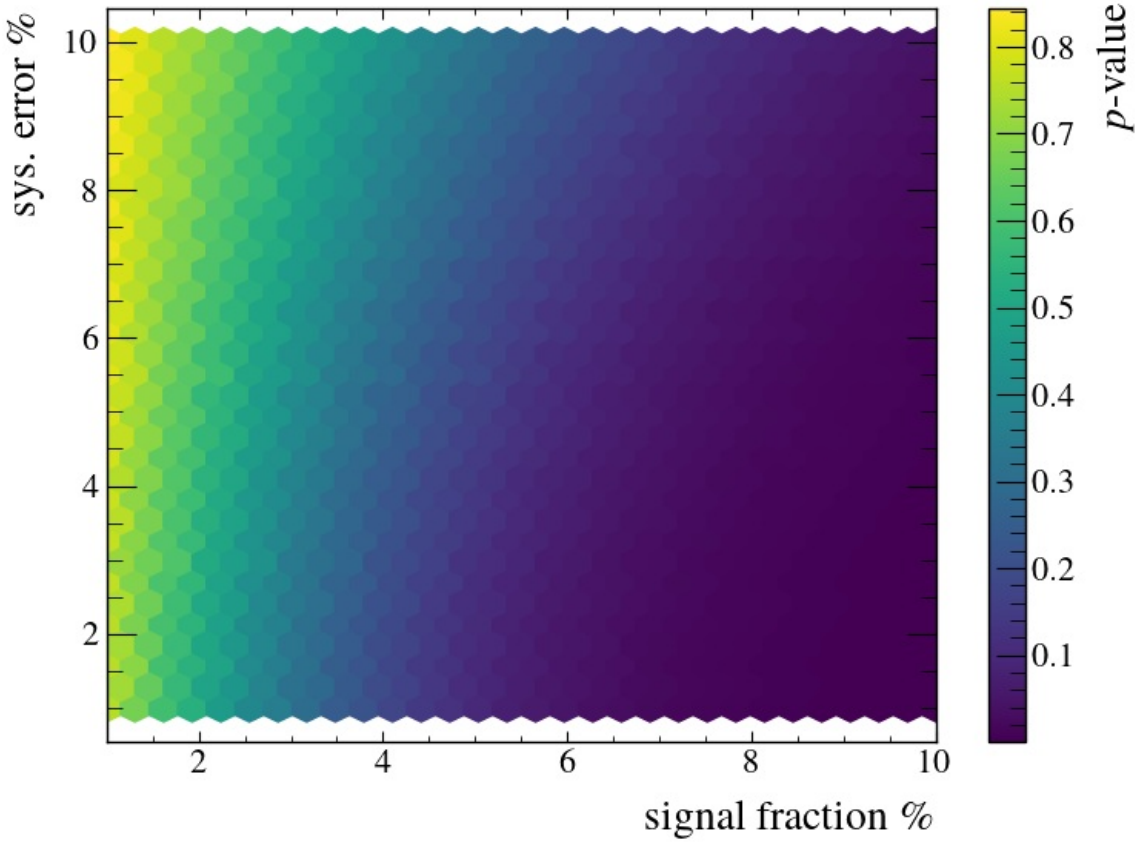
	sig_frac	bkg_err	p_sb	p_b	p_s	p_exp_sb	p_exp_b	
0	0.01	0.010000	0.42971033308692386	0.571927597749965	0.7513369433079611	0.3600236782686039	0.5	0.7
1	0.01	0.012308	0.4327485985332032	0.5740003675861907	0.7539169362434643	0.36093944417075197	0.5	0.7
2	0.01	0.014615	0.43217428508189026	0.57339290457229	0.7537140443066022	0.3609726295034114	0.5	0.7
3	0.01	0.016923	0.4326701247595891	0.5742557571235596	0.7534449927447462	0.3606208345727053	0.5	0.7
4	0.01	0.019231	0.43728470670208336	0.5766906040821187	0.7582657036663208	0.36268484752692476	0.5	0.7
...	...	...	...	...	...	...	...	
1595	0.10	0.090769	0.01834011758576407	0.6230791729518139	0.029434650333244904	0.008133187630173715	0.5	0.01
1596	0.10	0.093077	0.018178946270706216	0.620901050701423	0.029278330661817568	0.008180749504565198	0.5	0.016
1597	0.10	0.095385	0.02186976396491997	0.6292728524299578	0.03475402423681422	0.009475167728140945	0.5	0.01
1598	0.10	0.097692	0.022880748981502014	0.6271929926028323	0.036481193590106265	0.010116074604603136	0.5	0.02
1599	0.10	0.100000	0.025379625579974512	0.6284897979935578	0.04038192133109957	0.011263408049635786	0.5	0.02

1600 rows × 9 columns

In [10]:
```
x = np.array([float(i) * 100 for i in ml_res["sig_frac"].values])
y = np.array([float(i) * 100 for i in ml_res["bkg_err"].values])
z = np.array([float(i) for i in ml_res["p_sb"].values])

plt.xlabel("signal fraction \%")
plt.ylabel("sys. error \%")

plt.hexbin(x, y, z, gridsize=29)
plt.colorbar(label="$p$-value")
plt.tight_layout()

plt.savefig(saved + "hexbin_clsb_ml.pdf")
```

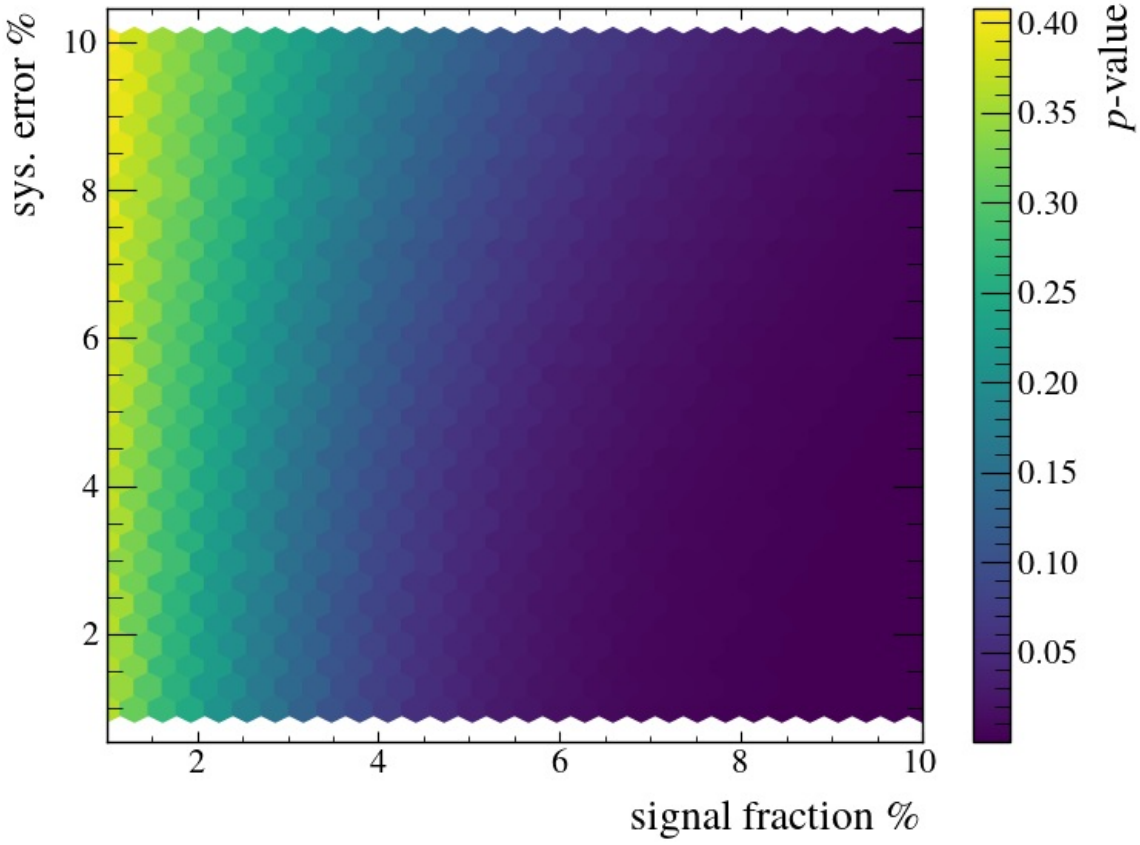


In [11]:
```
x = np.array([float(i) * 100 for i in ml_res["sig_frac"].values])
y = np.array([float(i) * 100 for i in ml_res["bkg_err"].values])
z = np.array([float(i) for i in ml_res["p_s"].values])

plt.xlabel("signal fraction \%")
plt.ylabel("sys. error \%")

plt.hexbin(x, y, z, gridsize=29)
plt.colorbar(label="$p$-value")
plt.tight_layout()

plt.savefig(saved + "hexbin_cls_ml.pdf")
```

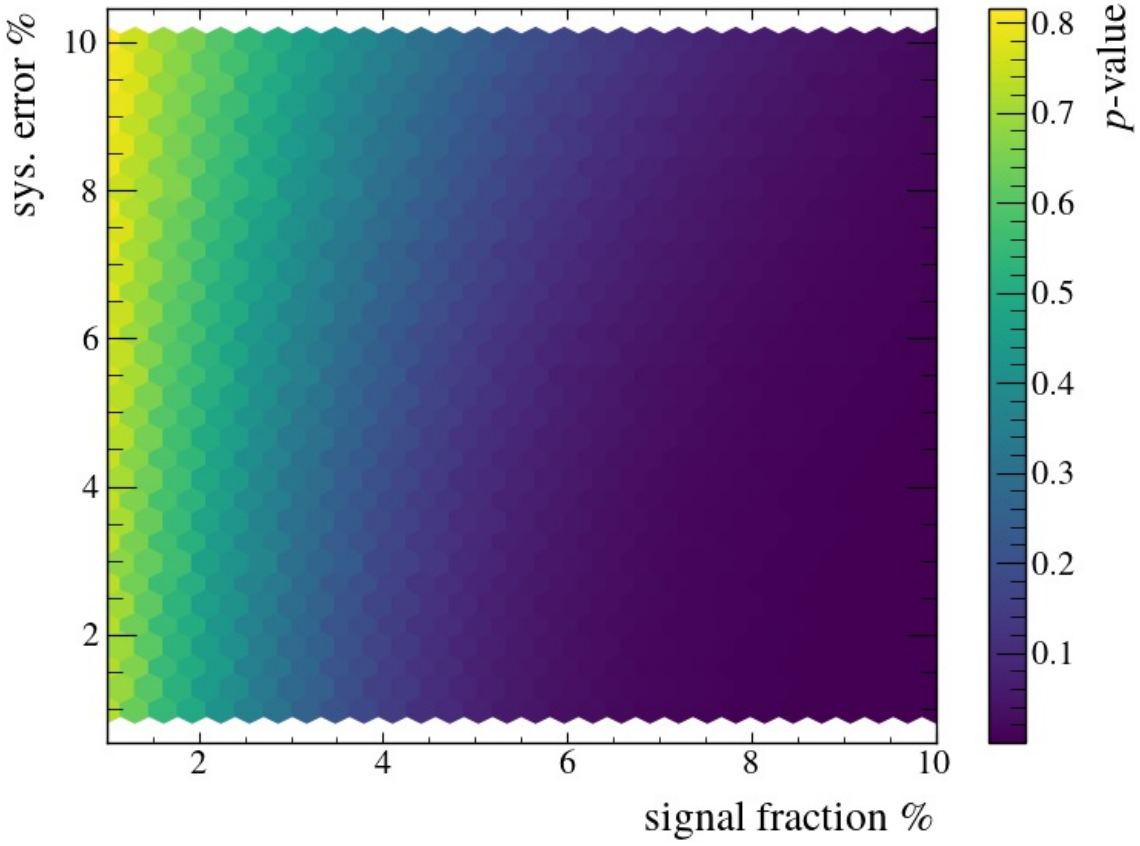


In [12]:
```
x = np.array([float(i) * 100 for i in ml_res["sig_frac"].values])
y = np.array([float(i) * 100 for i in ml_res["bkg_err"].values])
z = np.array([float(i) for i in mc_res["p_sb"].values])
```

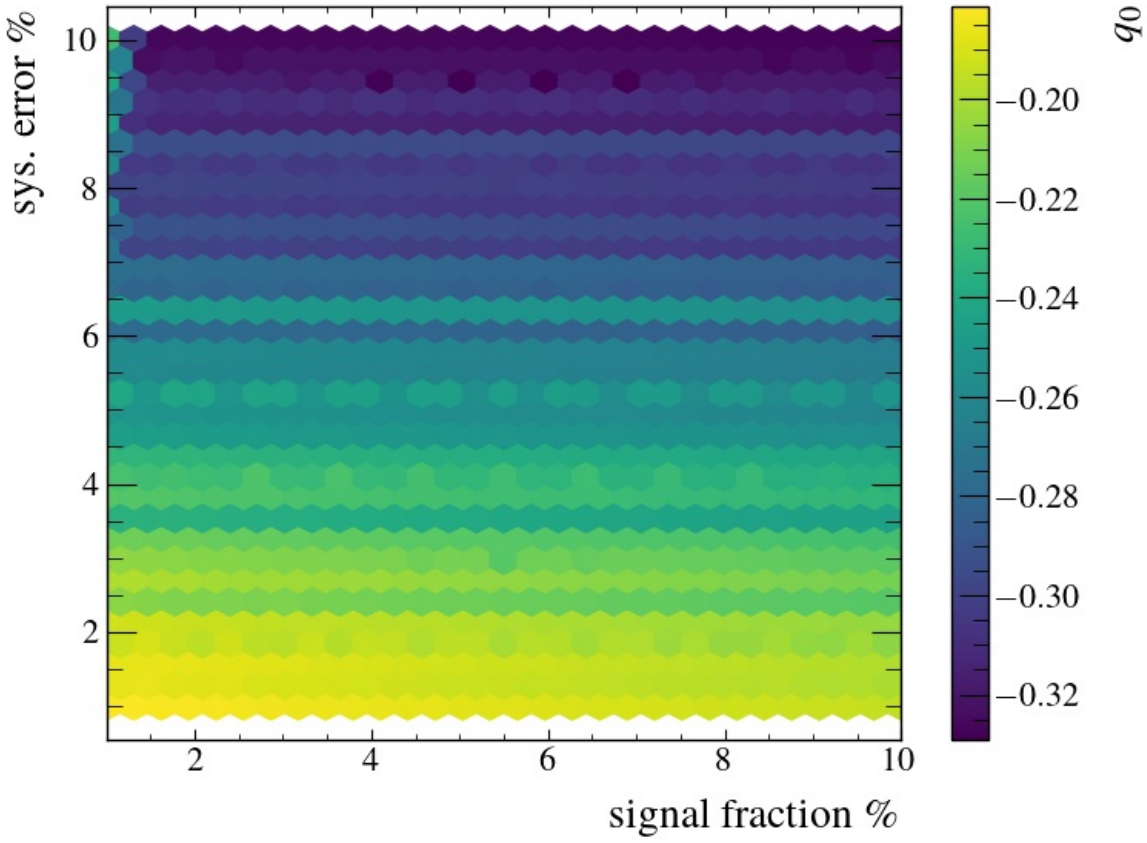
```
plt.xlabel("signal fraction \%")
plt.ylabel("sys. error \%")

plt.hexbin(x, y, z, gridsize=29)
plt.colorbar(label="$p$-value")
plt.tight_layout()

plt.savefig(saved + "hexbin_clsb_mc.pdf")
```



In [13]:
```
x = np.array([float(i) * 100 for i in ml_res["sig_frac"].values])
y = np.array([float(i) * 100 for i in ml_res["bkg_err"].values])
z = np.array([float(i) for i in mc_res["p_s"].values])

plt.xlabel("signal fraction \%")
plt.ylabel("sys. error \%")

plt.hexbin(x, y, z, gridsize=29)
plt.colorbar(label="$p$-value")
plt.tight_layout()

plt.savefig(saved + "hexbin_cls_mc.pdf")
```



In [15]:
```
x = np.array([float(i) * 100 for i in ml_res["sig_frac"].values])
y = np.array([float(i) * 100 for i in ml_res["bkg_err"].values])
z = np.array([float(i) for i in ml_res["teststat"].values])

plt.xlabel("signal fraction \%")
plt.ylabel("sys. error \%")

plt.hexbin(x, y, z, gridsize=29)
plt.colorbar(label="$q_0$")
plt.tight_layout()

plt.savefig(saved + "hexbin_q0_ml.pdf")
```



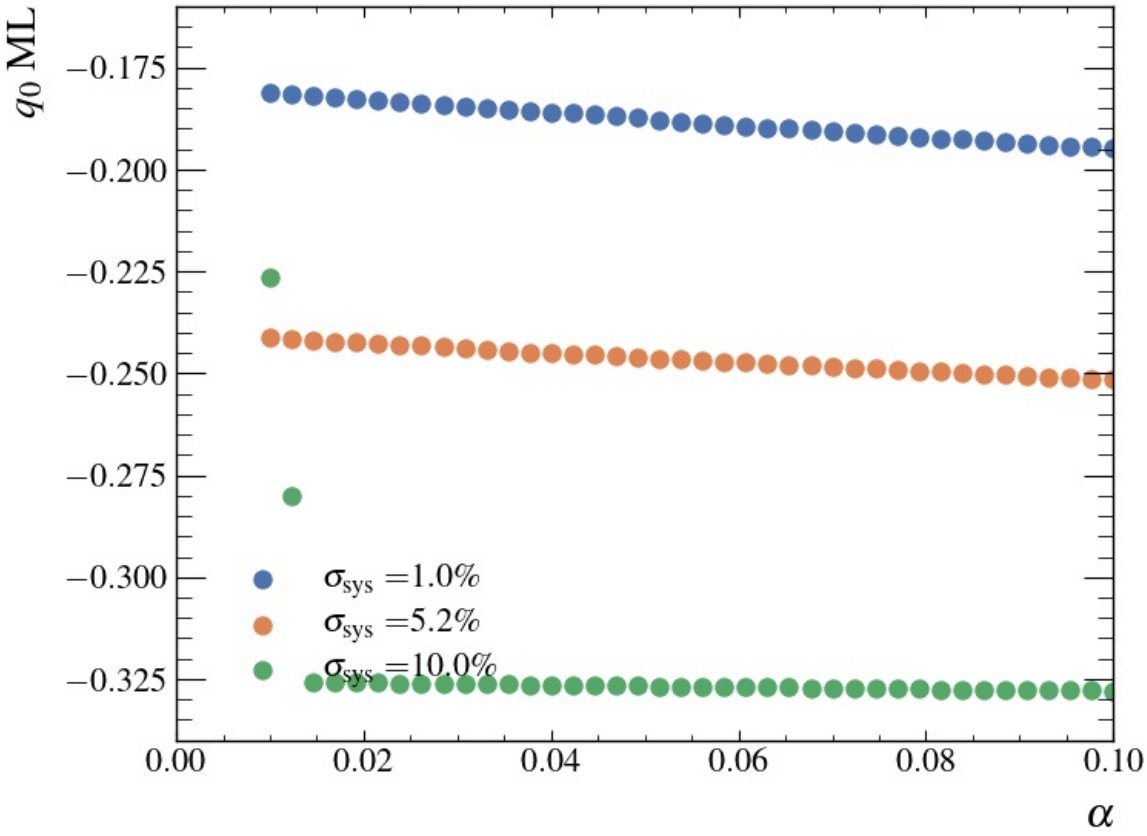
Constant signal fraction

In [16]:
```
sig_fracs = np.linspace(0.01, 0.1, pts)
bkg_errs = np.linspace(0.01, 0.1, pts)
```

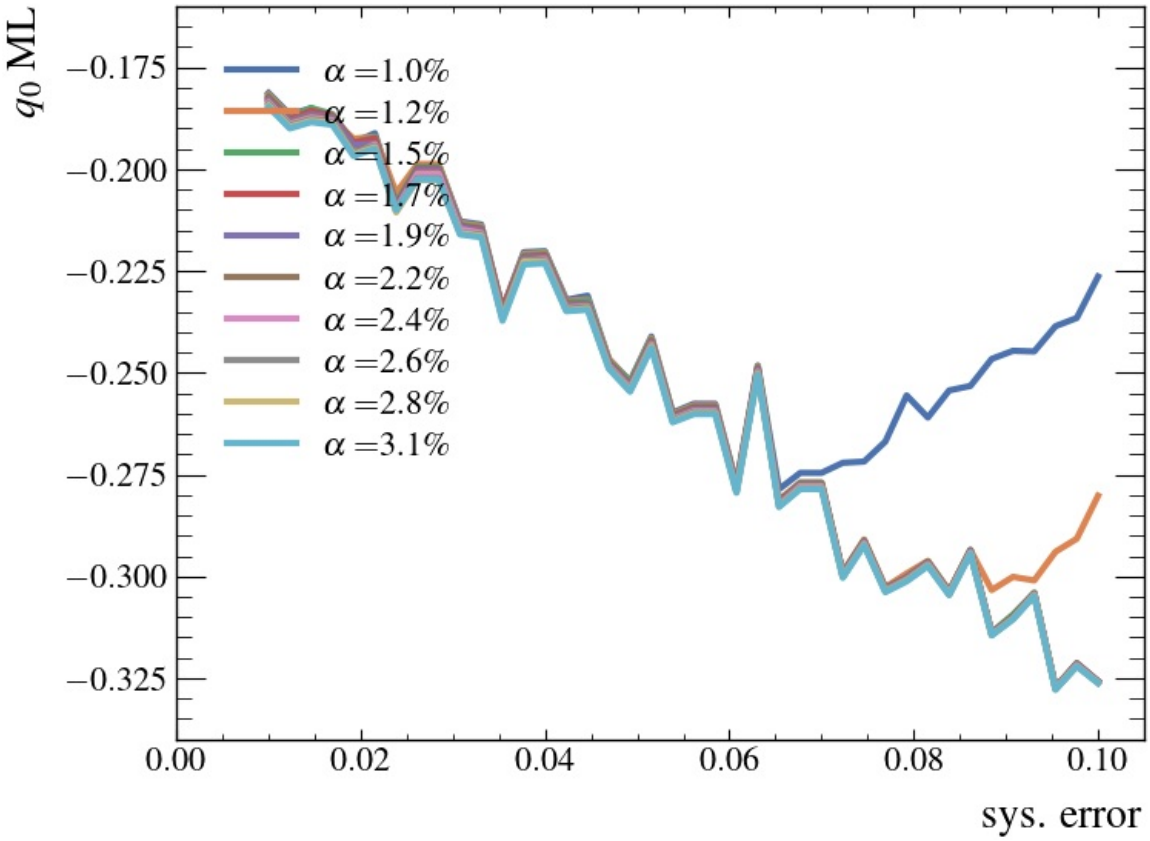
In [17]:
```
sig_fracs, bkg_errs
```

Out[17]:
```
(array([0.01      , 0.01230769, 0.01461538, 0.01692308, 0.01923077,
        0.02153846, 0.02384615, 0.02615385, 0.02846154, 0.03076923,
        0.03307692, 0.03538462, 0.03769231, 0.04      , 0.04230769,
        0.04461538, 0.04692308, 0.04923077, 0.05153846, 0.05384615,
        0.05615385, 0.05846154, 0.06076923, 0.06307692, 0.06538462,
        0.06769231, 0.07      , 0.07230769, 0.07461538, 0.07692308,
        0.07923077, 0.08153846, 0.08384615, 0.08615385, 0.08846154,
        0.09076923, 0.09307692, 0.09538462, 0.09769231, 0.1       ]),
 array([0.01      , 0.01230769, 0.01461538, 0.01692308, 0.01923077,
        0.02153846, 0.02384615, 0.02615385, 0.02846154, 0.03076923,
        0.03307692, 0.03538462, 0.03769231, 0.04      , 0.04230769,
        0.04461538, 0.04692308, 0.04923077, 0.05153846, 0.05384615,
        0.05615385, 0.05846154, 0.06076923, 0.06307692, 0.06538462,
        0.06769231, 0.07      , 0.07230769, 0.07461538, 0.07692308,
        0.07923077, 0.08153846, 0.08384615, 0.08615385, 0.08846154,
        0.09076923, 0.09307692, 0.09538462, 0.09769231, 0.1       ]))
```

In [18]:
```
for e in [bkg_errs[0], bkg_errs[18], bkg_errs[-1]]:
    ml_ = ml_res[ml_res["bkg_err"] == e]
    plt.scatter(sig_fracs, ml_["teststat"], label='$\sigma_\mathrm{sys}=$' + f"{100*e:.1f}\%")

plt.xlabel(r"$\alpha$")
plt.ylabel("$q_0$ ML")
plt.legend()
plt.tight_layout()

plt.savefig(saved + "q0_vs_sigfrac.pdf")
```

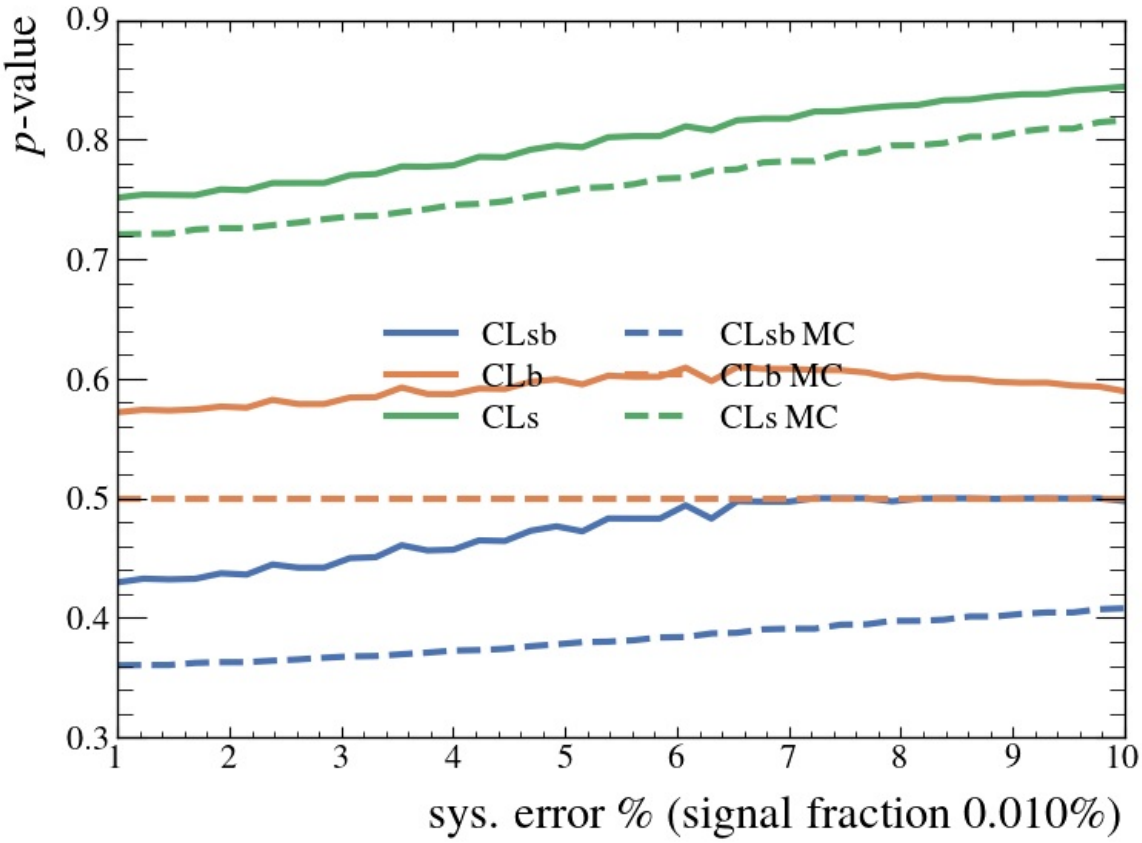


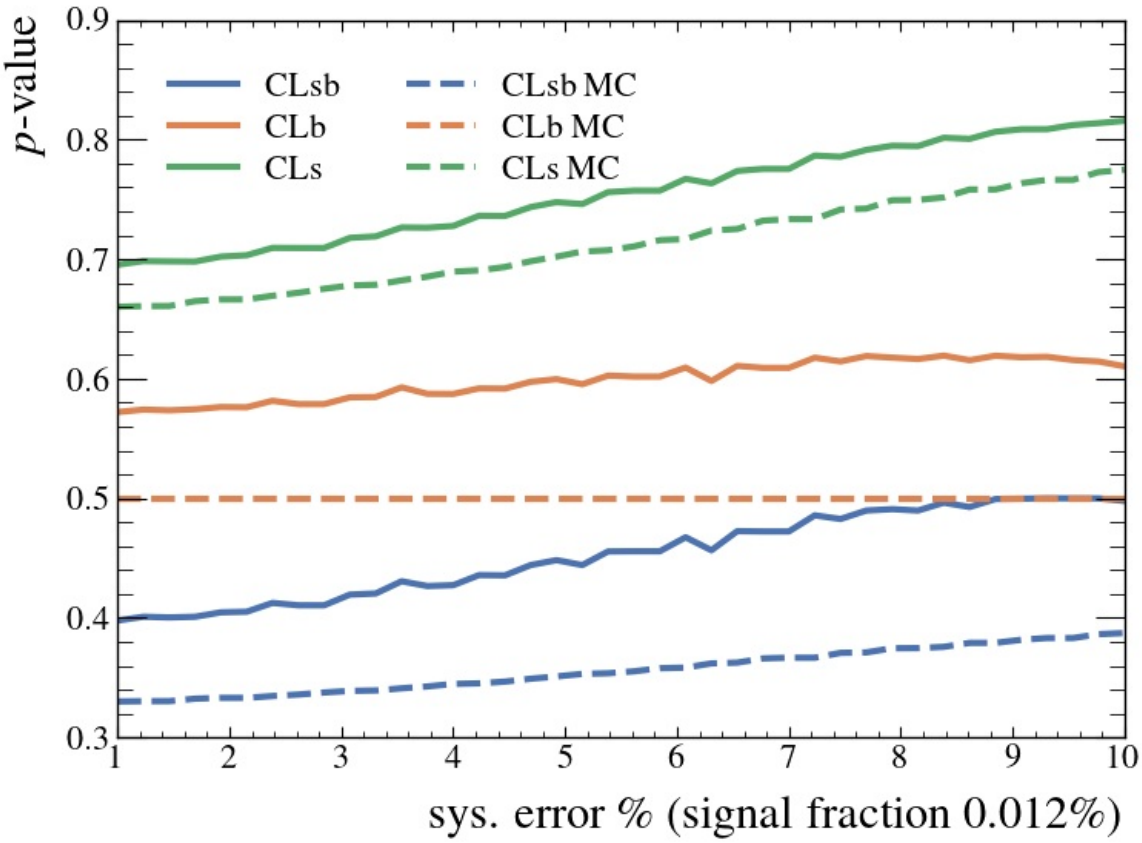
In [19]:
```
for sf in [*sig_fracs[:10]]:
    ml_ = ml_res[ml_res["sig_frac"] == sf]
    plt.plot(bkg_errs, ml_["teststat"], label=r'$\alpha=$' + f'{100*sf:.1f}\%', lw=3)

plt.legend(ncol=1, loc='upper left')
plt.xlim([0, 0.105])
plt.xlabel(r"sys. error")
plt.ylabel("$q_0$ ML")
plt.tight_layout()

plt.savefig(saved + "q0_vs_syserr.pdf")
```

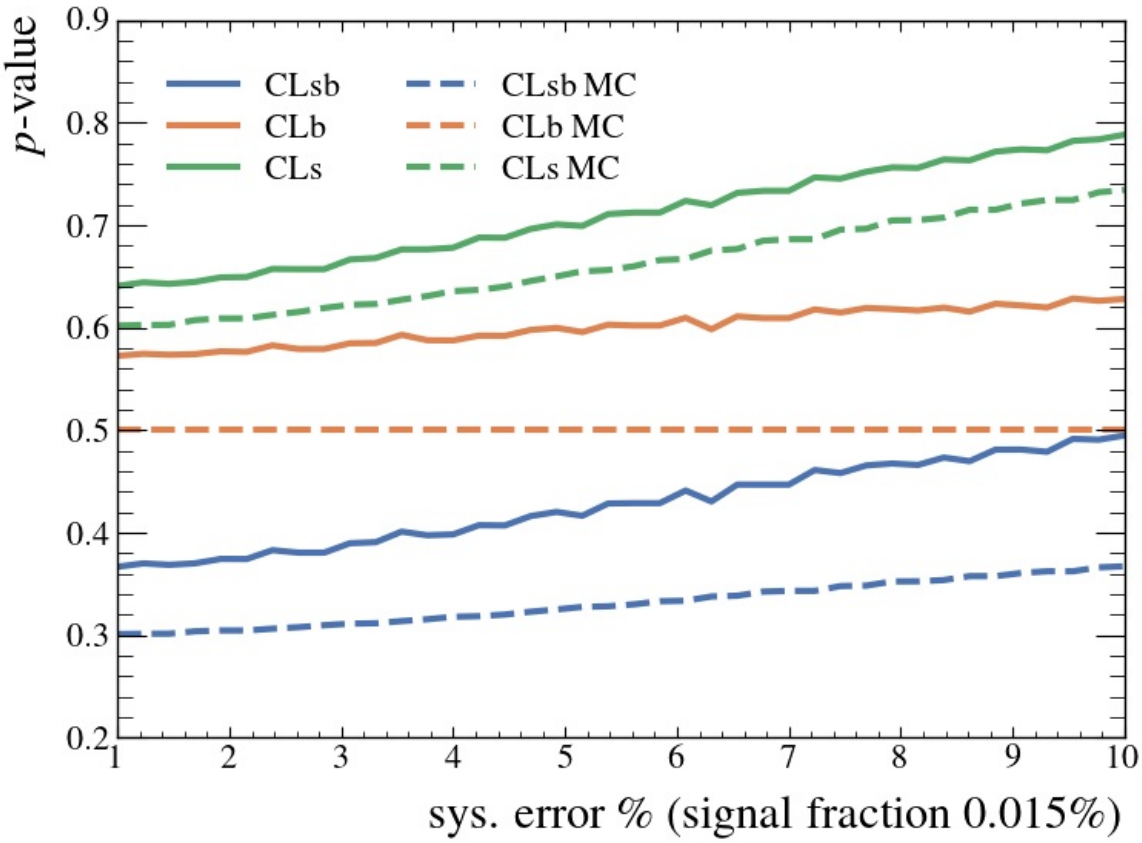


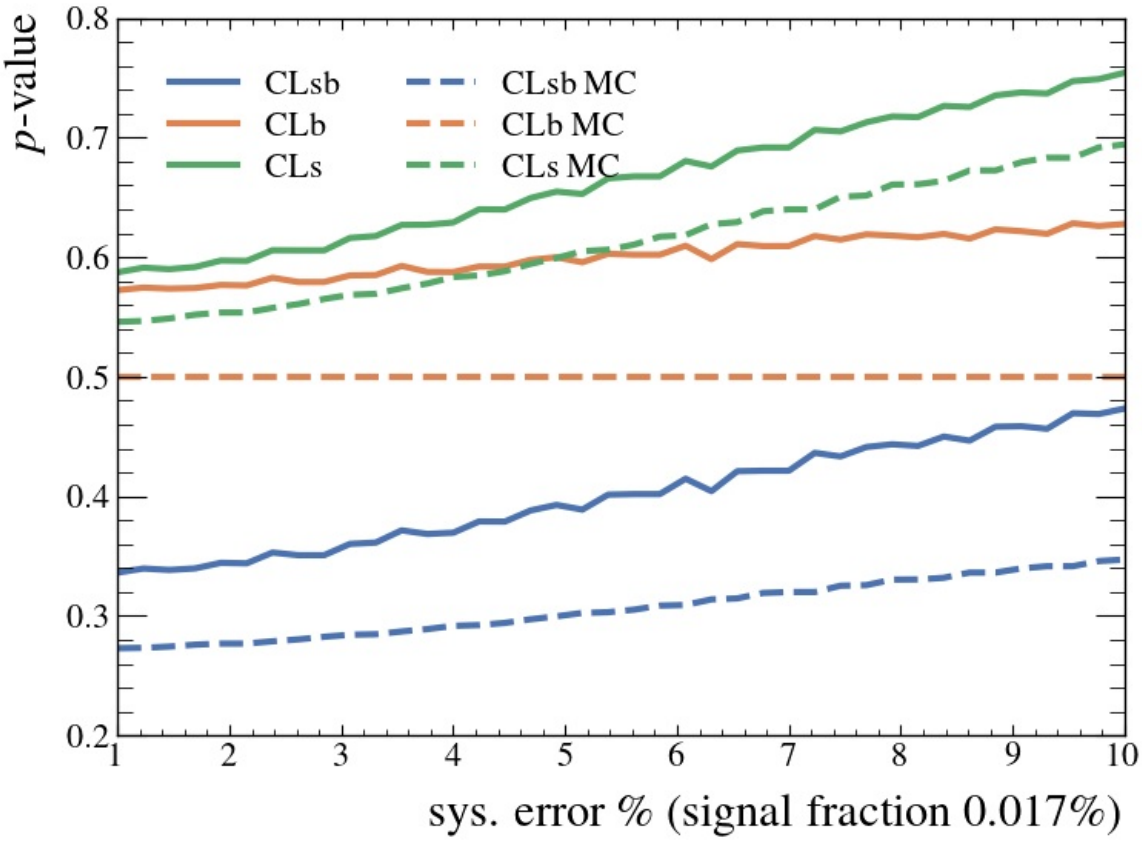
In [20]:

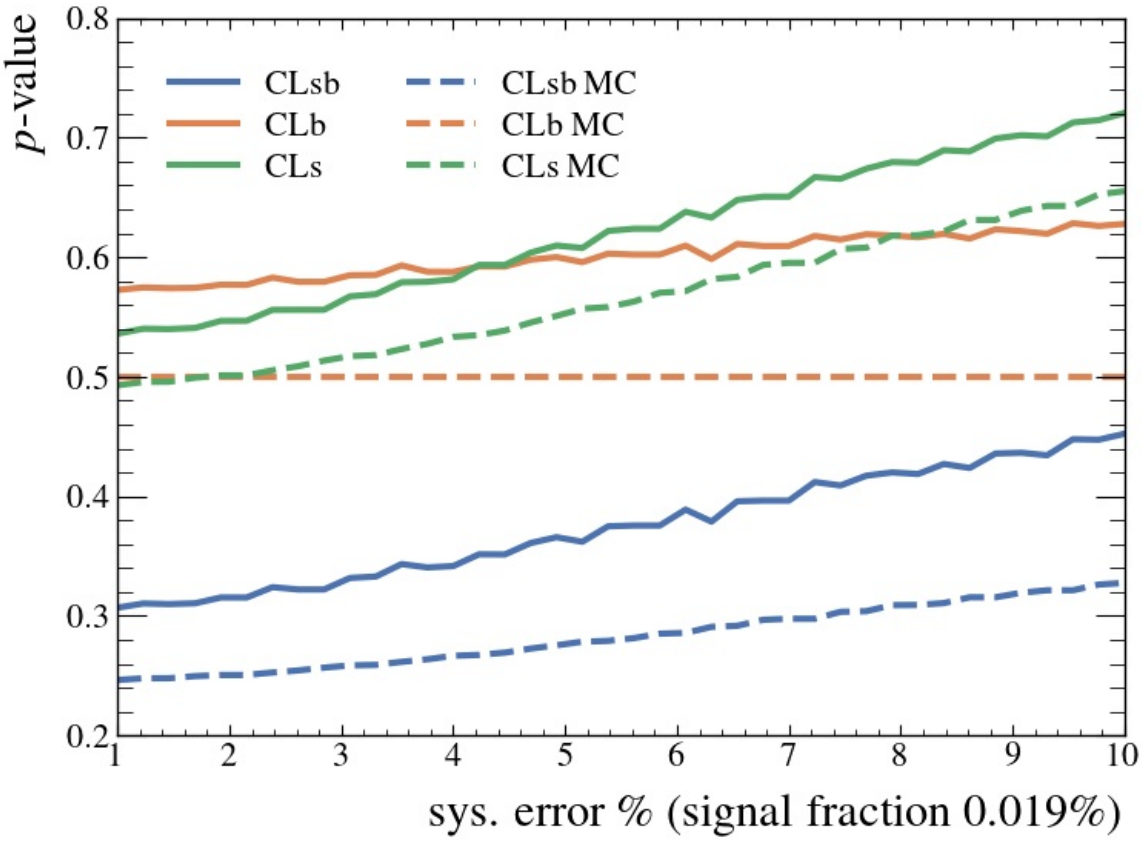
```
for i, f in enumerate(sig_fracs):
    ml_ = ml_res[ml_res["sig_frac"] == f]
    mc_ = mc_res[mc_res["sig_frac"] == f]

    plt.plot(ml_["bkg_err"] * 100, ml_["p_sb"], c="C0", lw=3)
    plt.plot(ml_["bkg_err"] * 100, ml_["p_b"], c="C1", lw=3)
    plt.plot(ml_["bkg_err"] * 100, ml_["p_s"], c="C2", lw=3)

    plt.plot(mc_["bkg_err"] * 100, mc_["p_sb"], ls='--', c='C0', lw=3)
    plt.plot(mc_["bkg_err"] * 100, mc_["p_b"], ls='--', c='C1', lw=3)
    plt.plot(mc_["bkg_err"] * 100, mc_["p_s"], ls='--', c='C2', lw=3)

    plt.legend(["CLsb", "CLb", "CLs", "CLsb MC", "CLb MC", "CLs MC"], ncol=2)

    plt.xlabel("sys. error \% (signal fraction {:.3f}\%)".format(f), fontsize=22)
    plt.ylabel("$p$-value", fontsize=22)
    plt.tight_layout()

    plt.savefig(saved + f"CLs_q0_mu0_bkg_errs_{i}.pdf")
    plt.show()
```

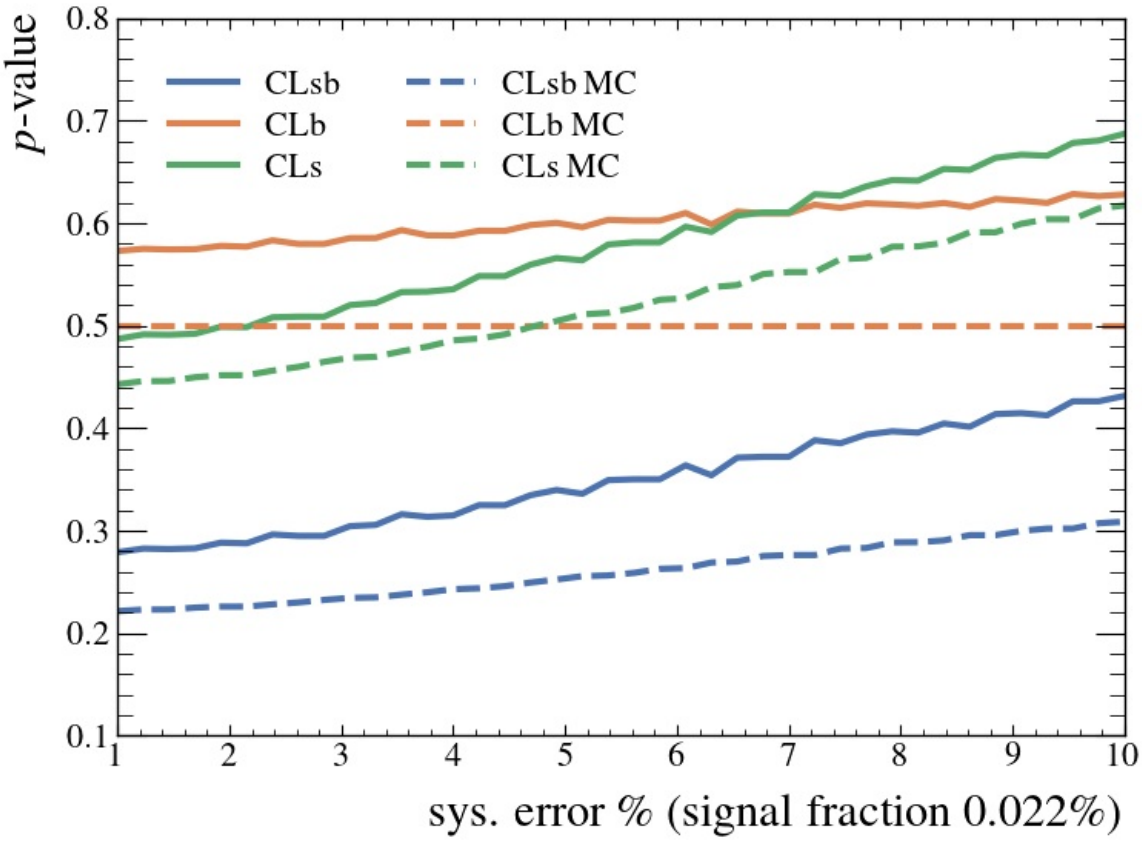

p-value
0.9
0.8
0.7
0.6
0.5
0.4
0.3
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.010%)

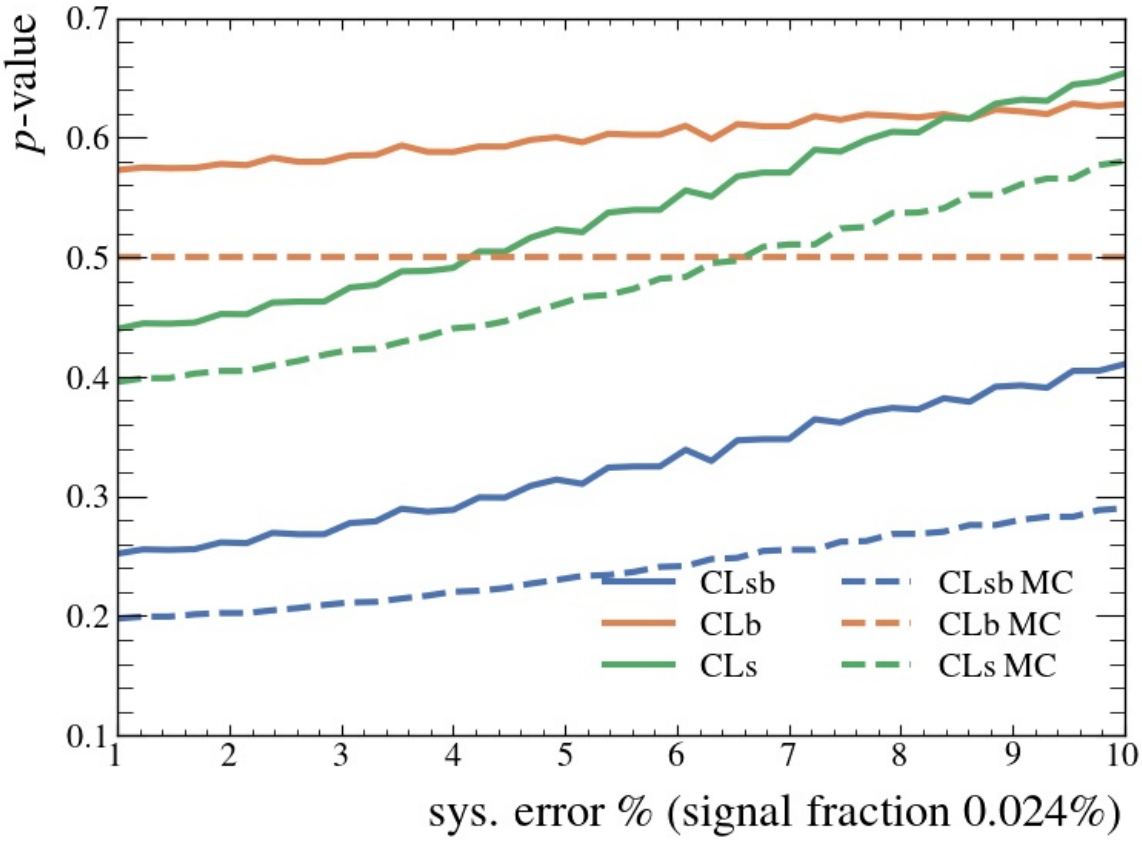

p-value
0.9
0.8
0.7
0.6
0.5
0.4
0.3
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.012%)

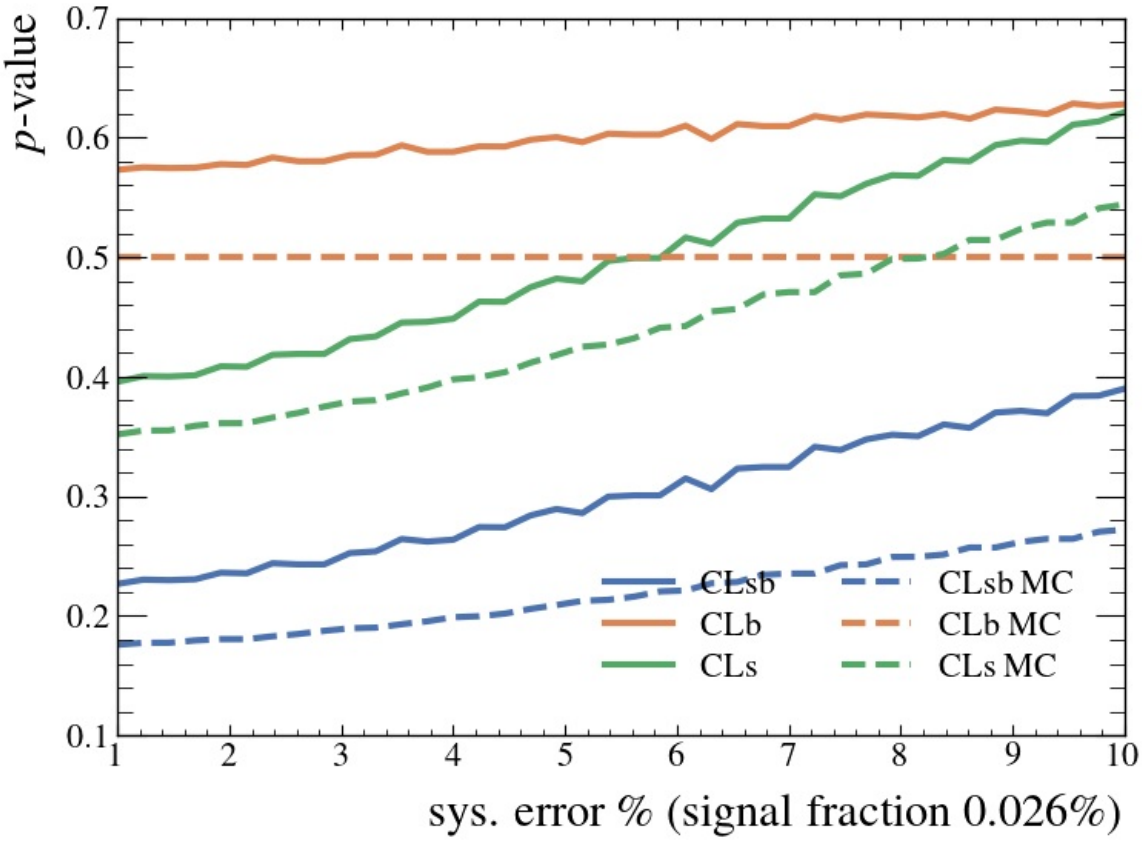

p-value
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.015%)

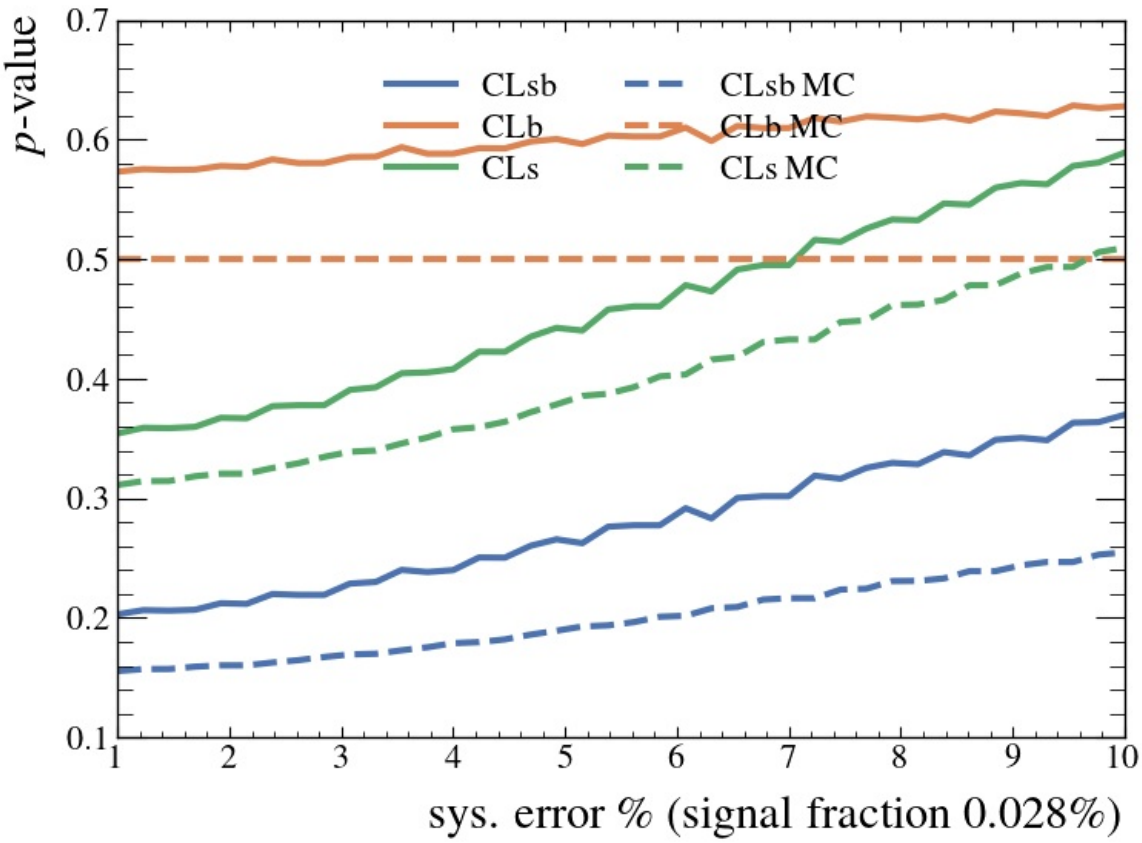

p-value
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.017%)

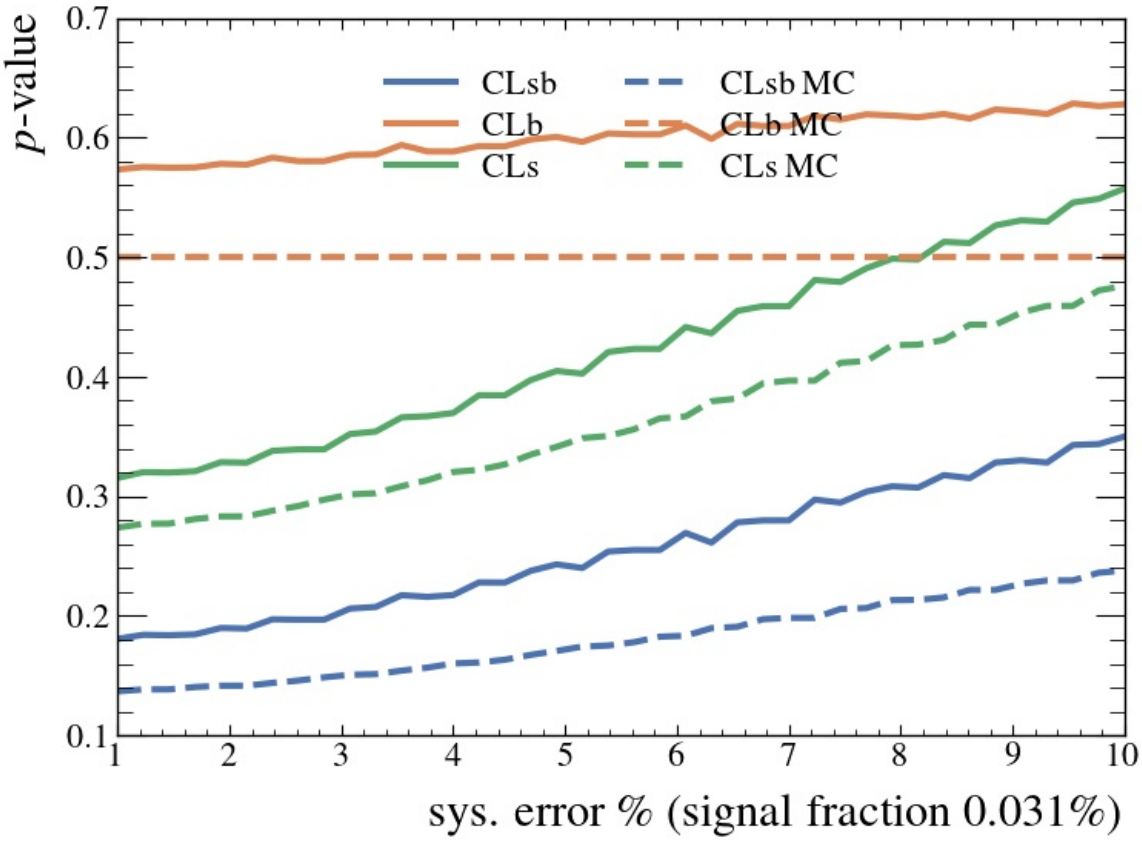

p-value
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.019%)

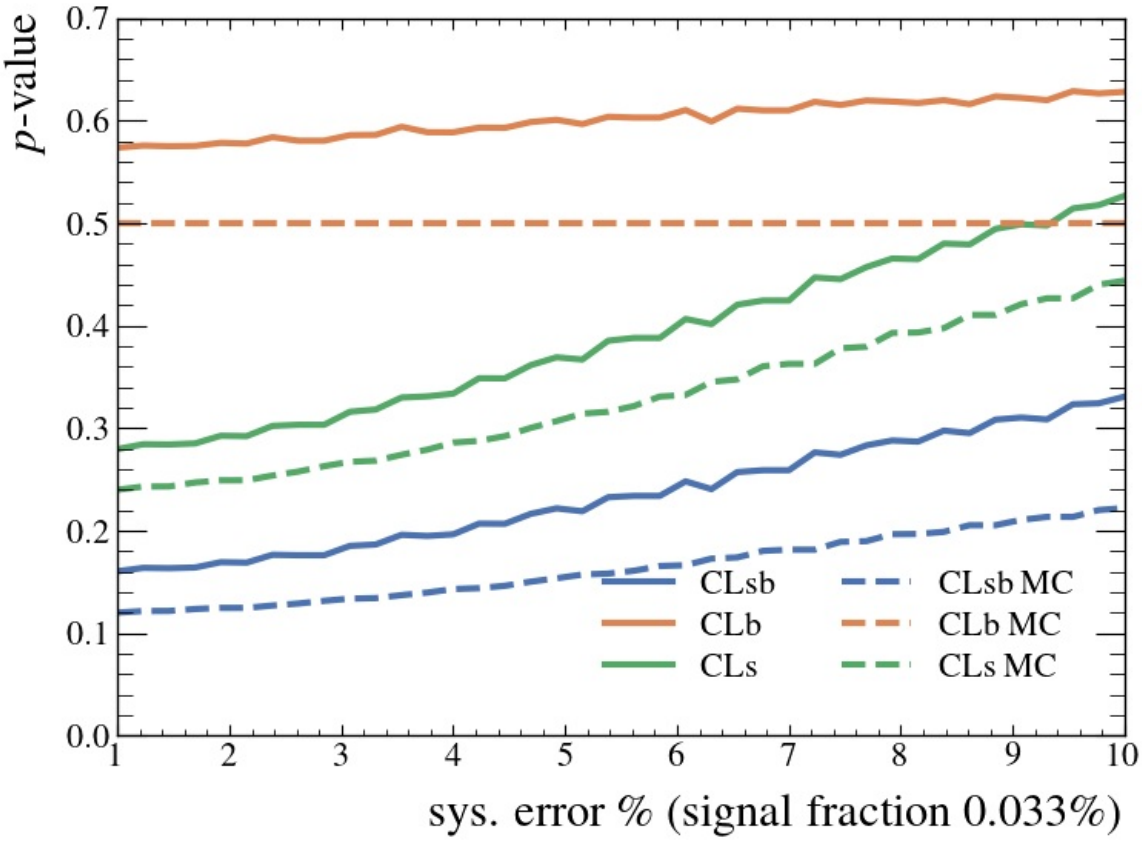

p-value
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.022%)

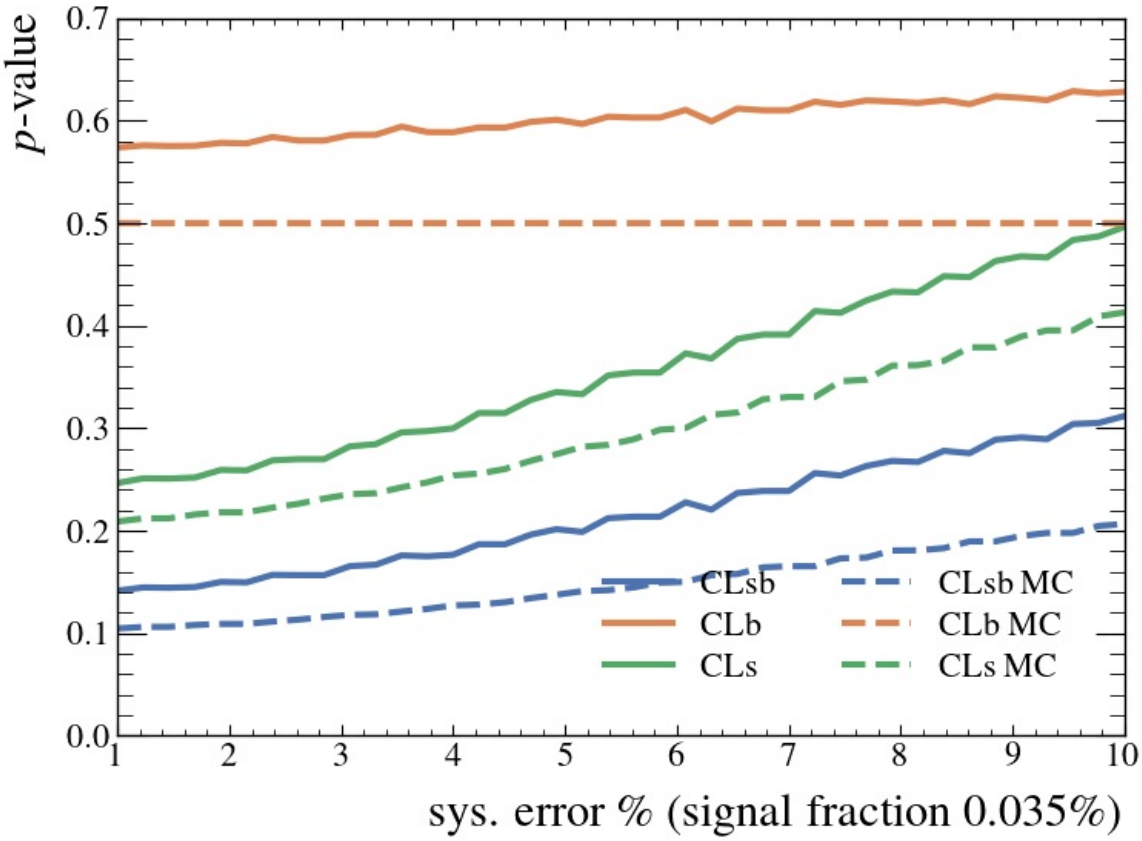

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.024%)

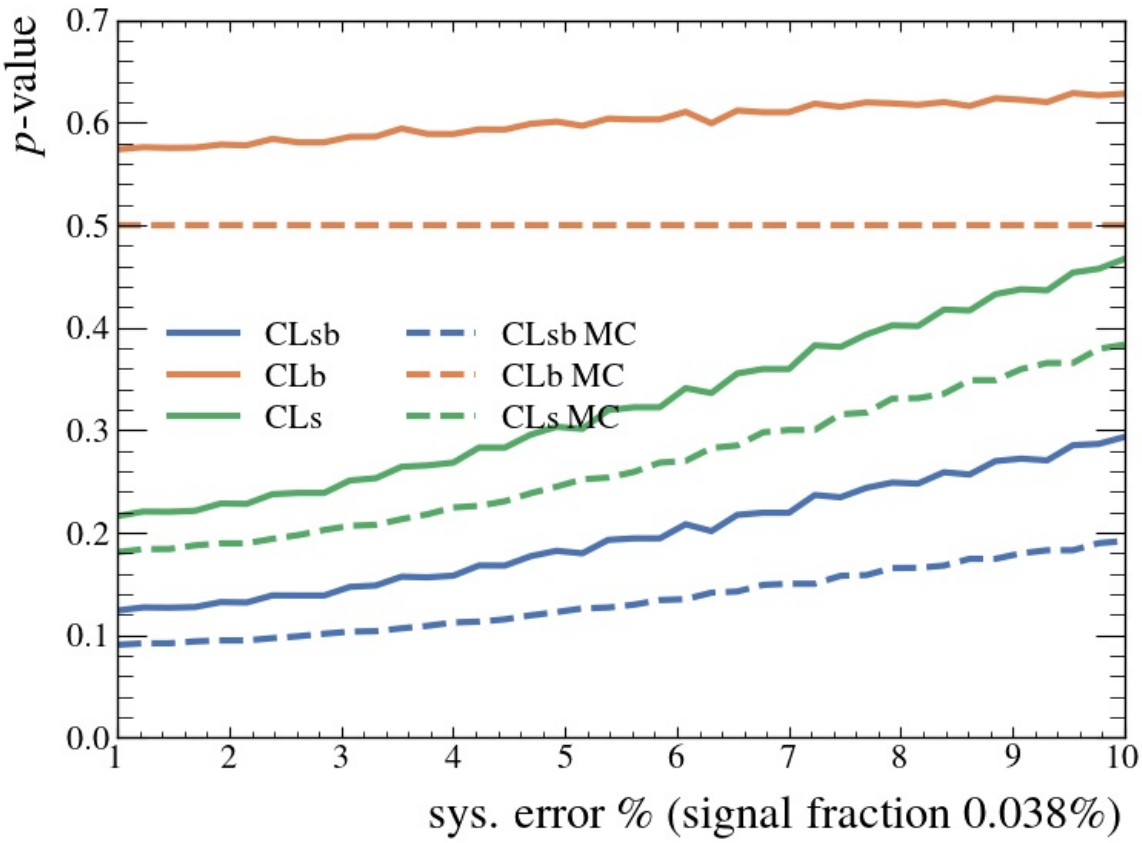

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.026%)

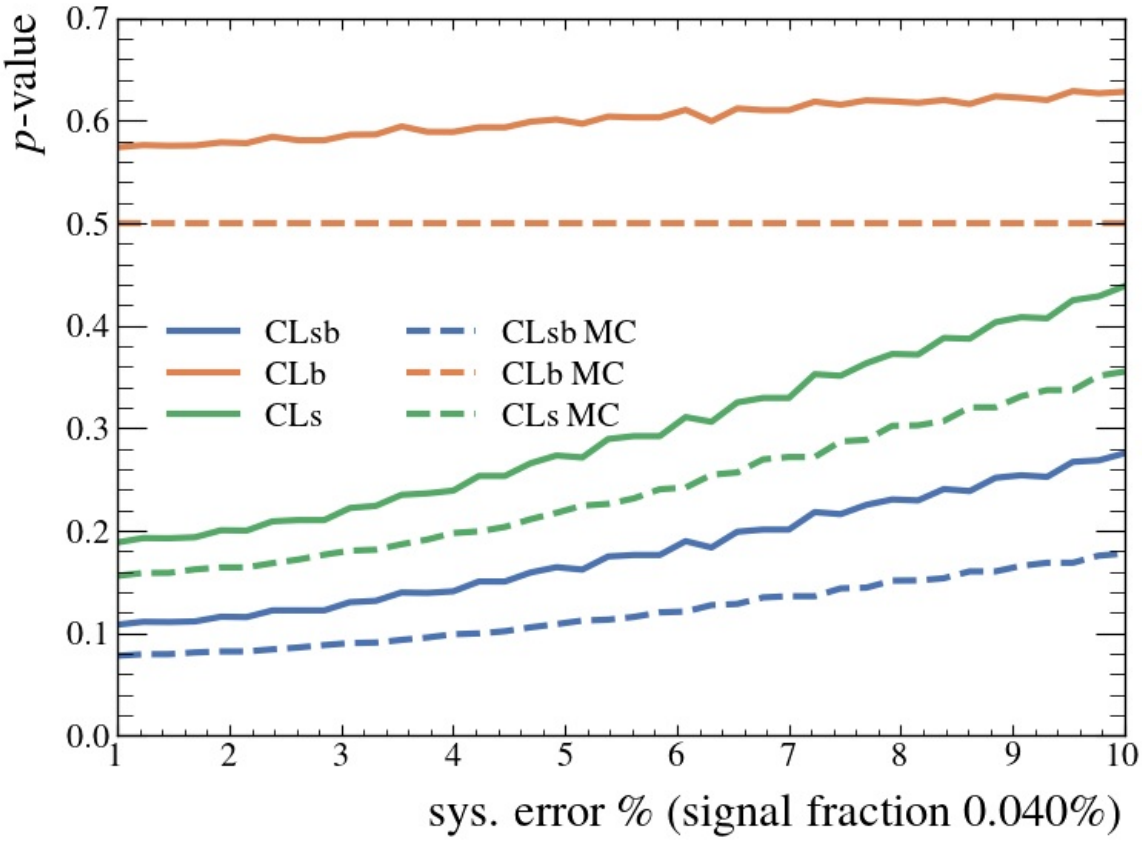

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.028%)

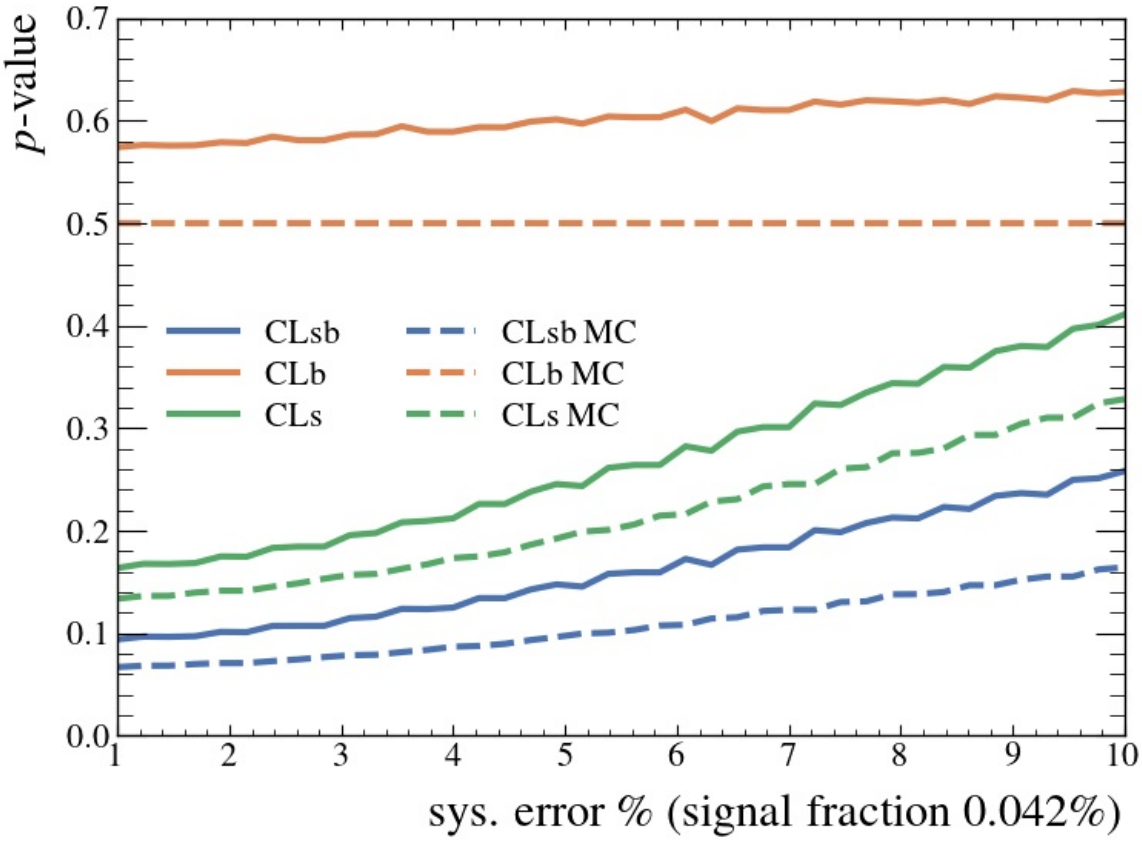

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.031%)

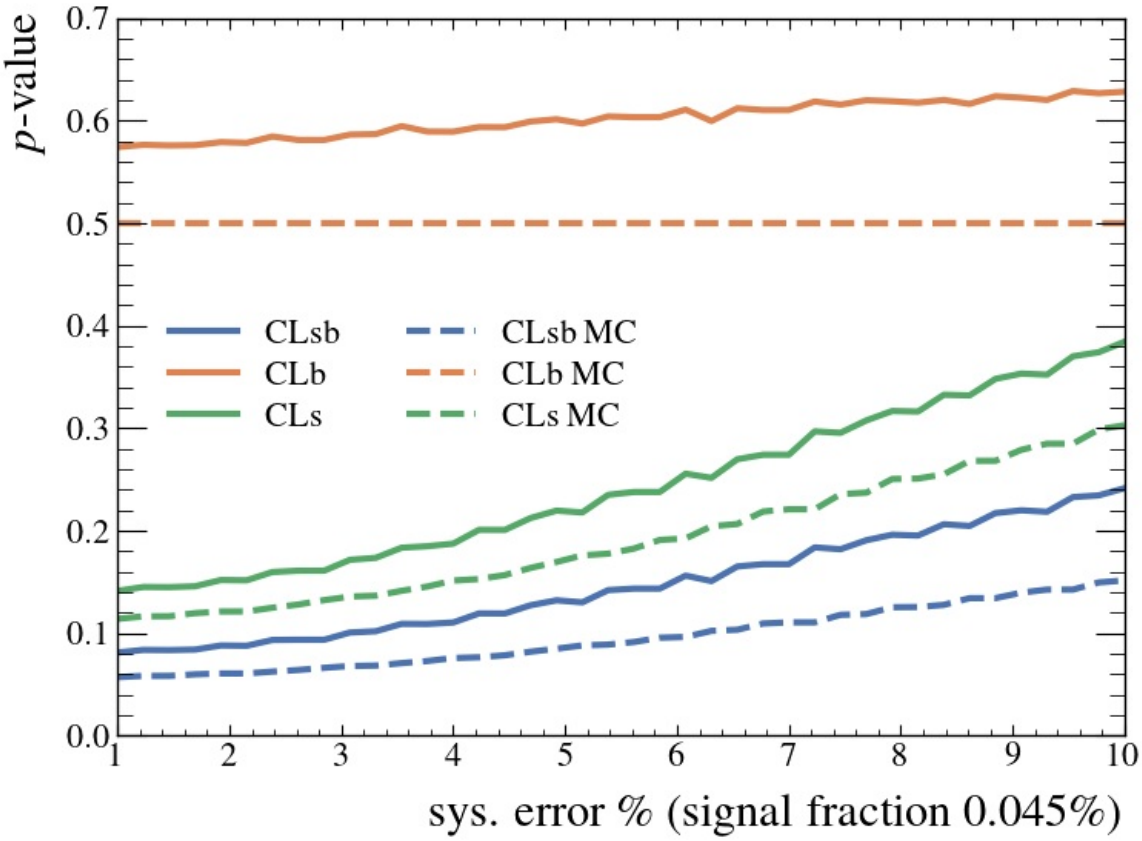

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.033%)

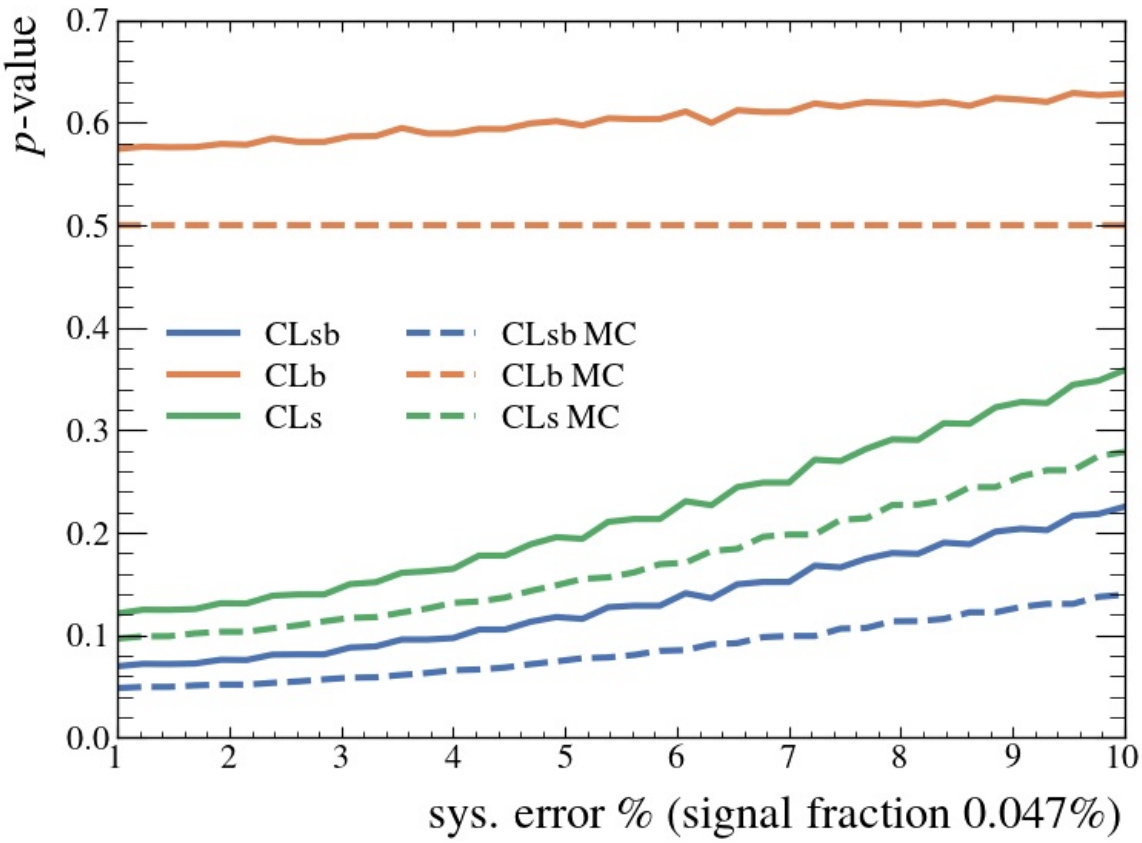

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.035%)

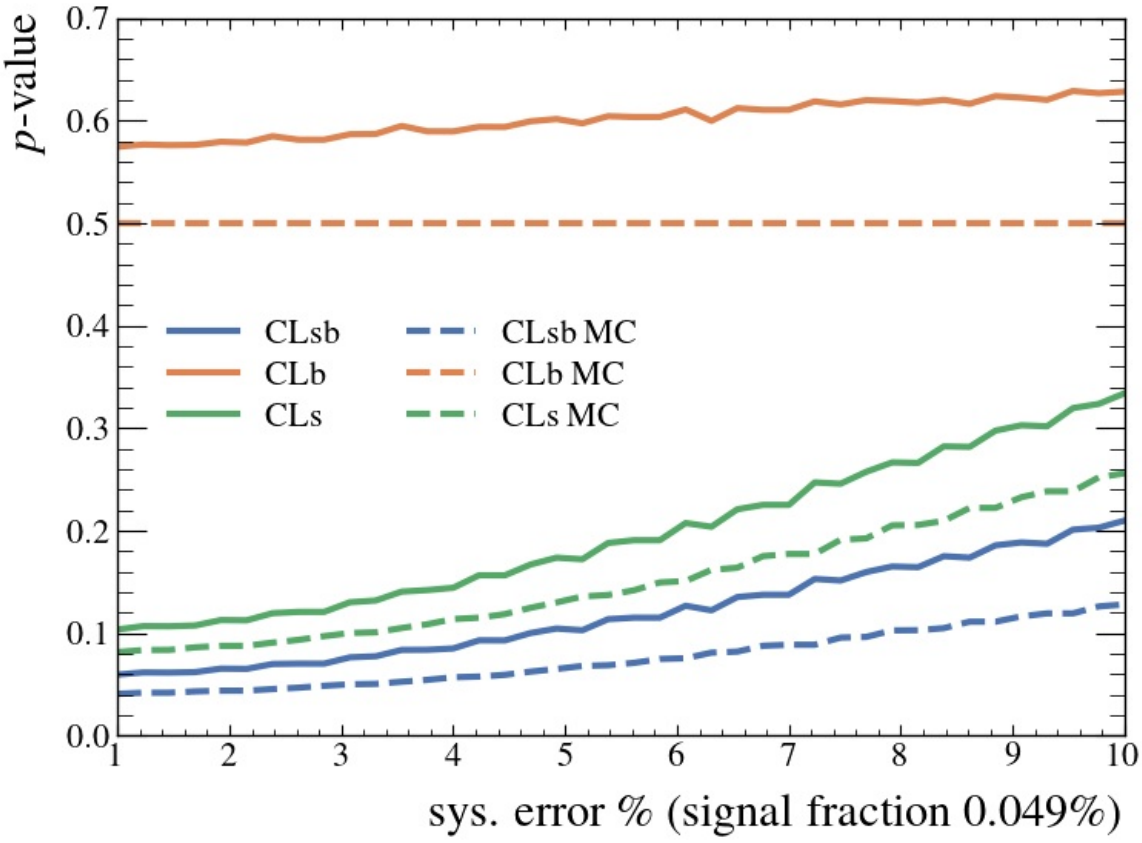

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.038%)

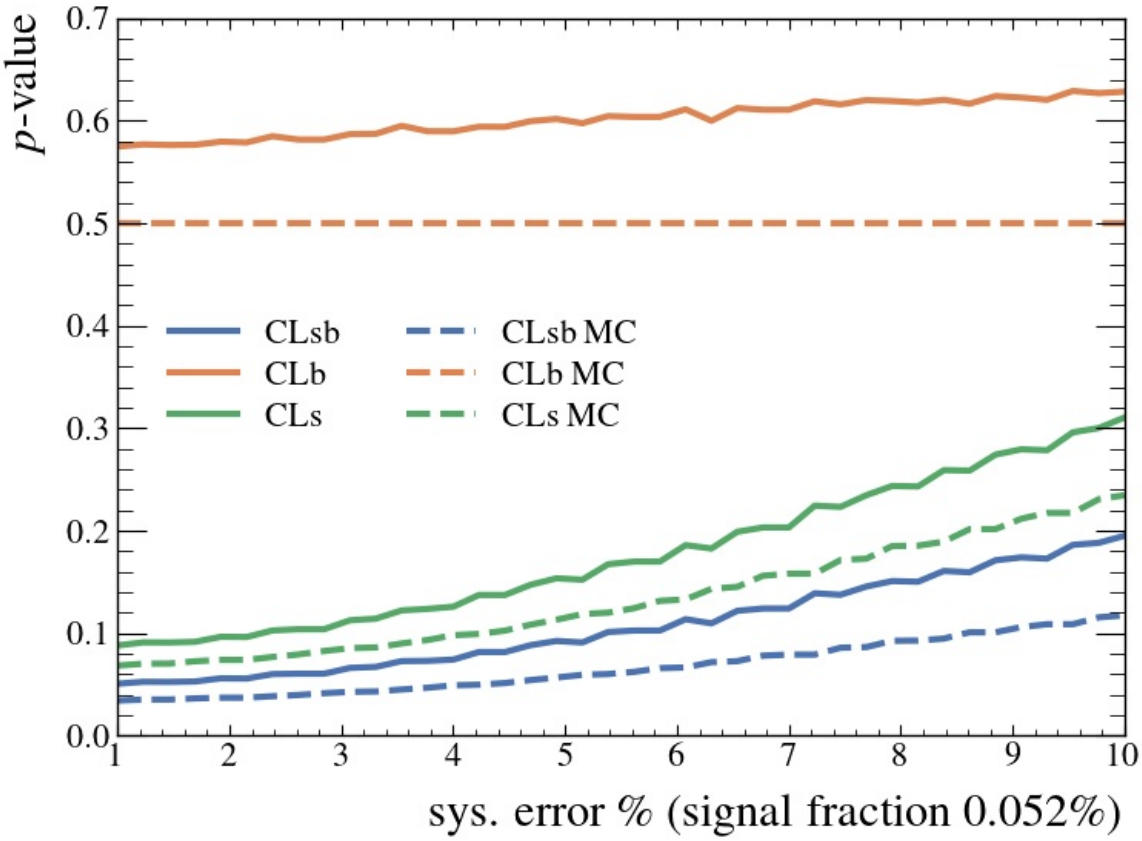

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.040%)

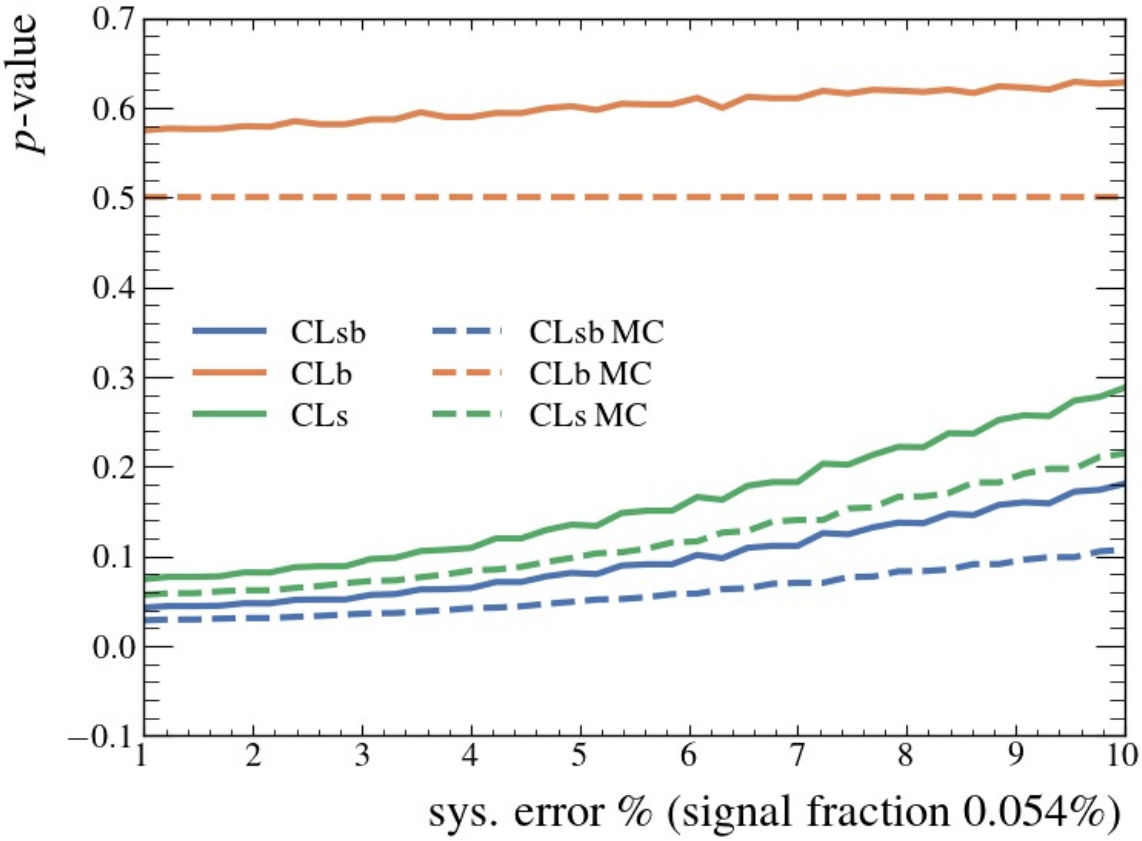

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.042%)

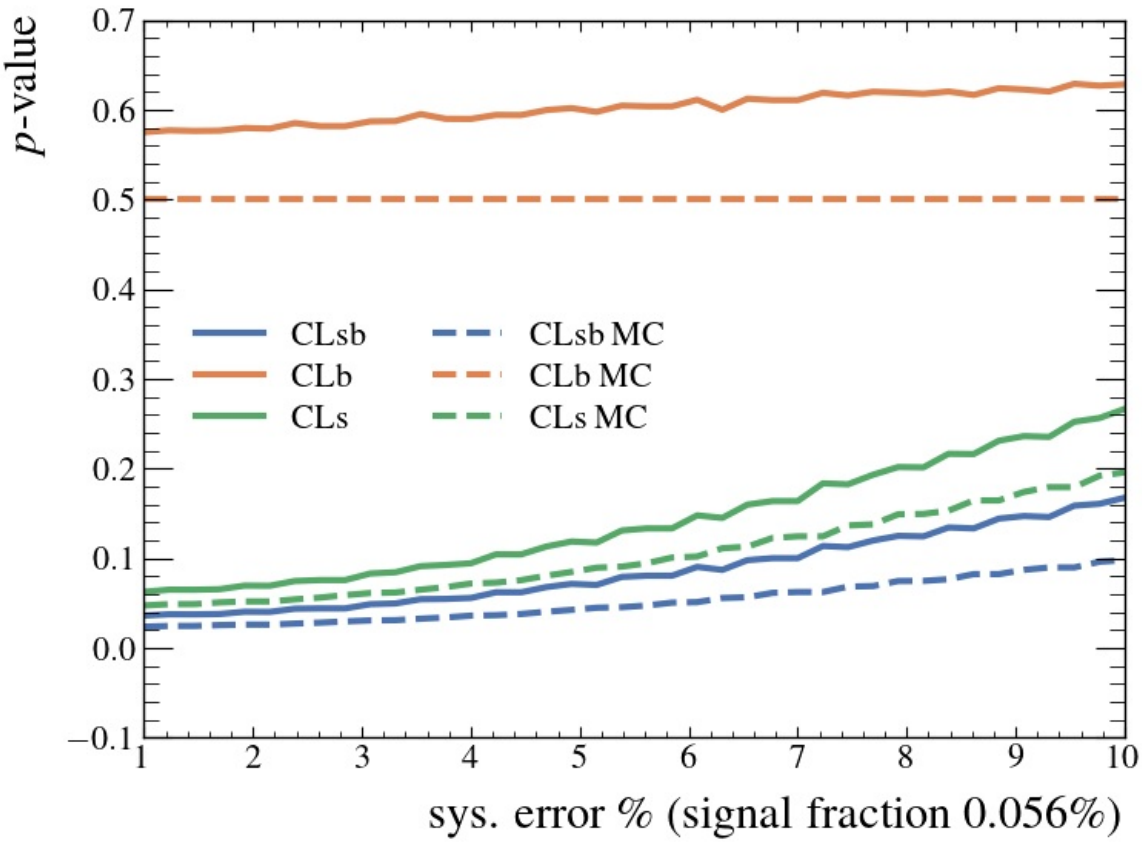

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.045%)

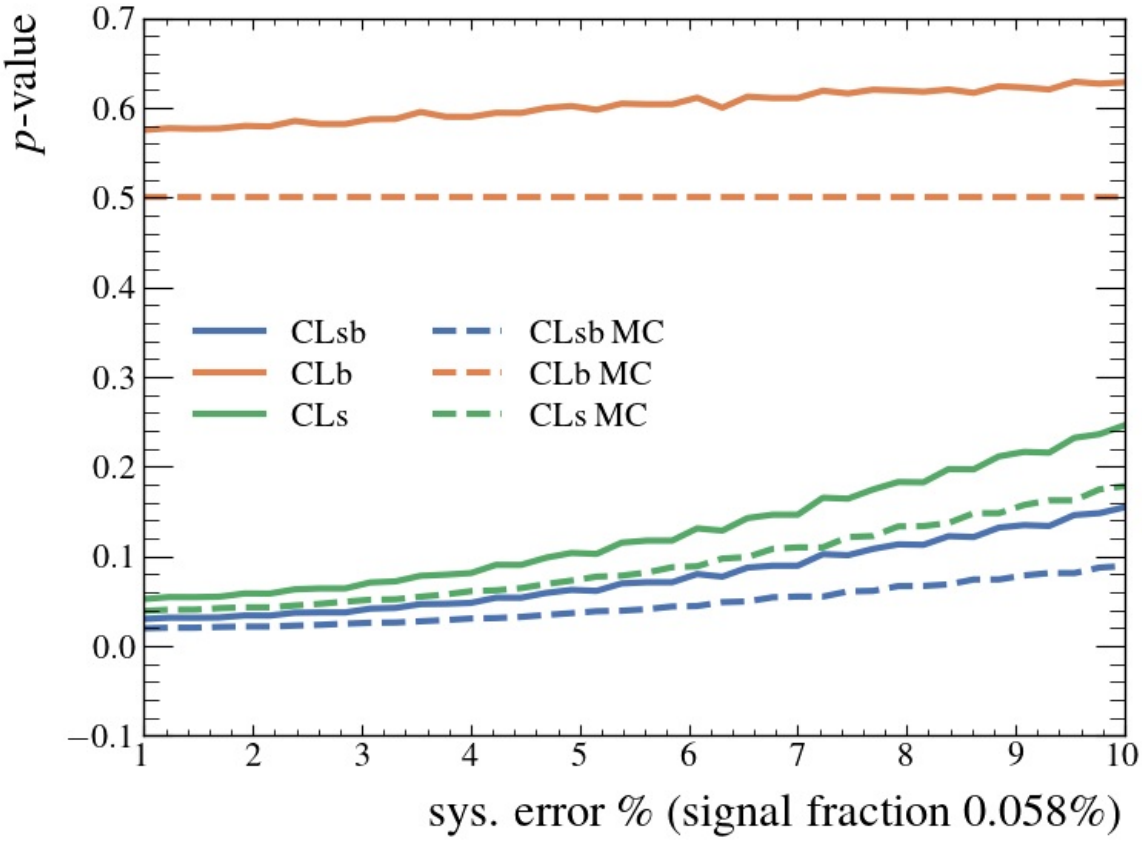

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.047%)

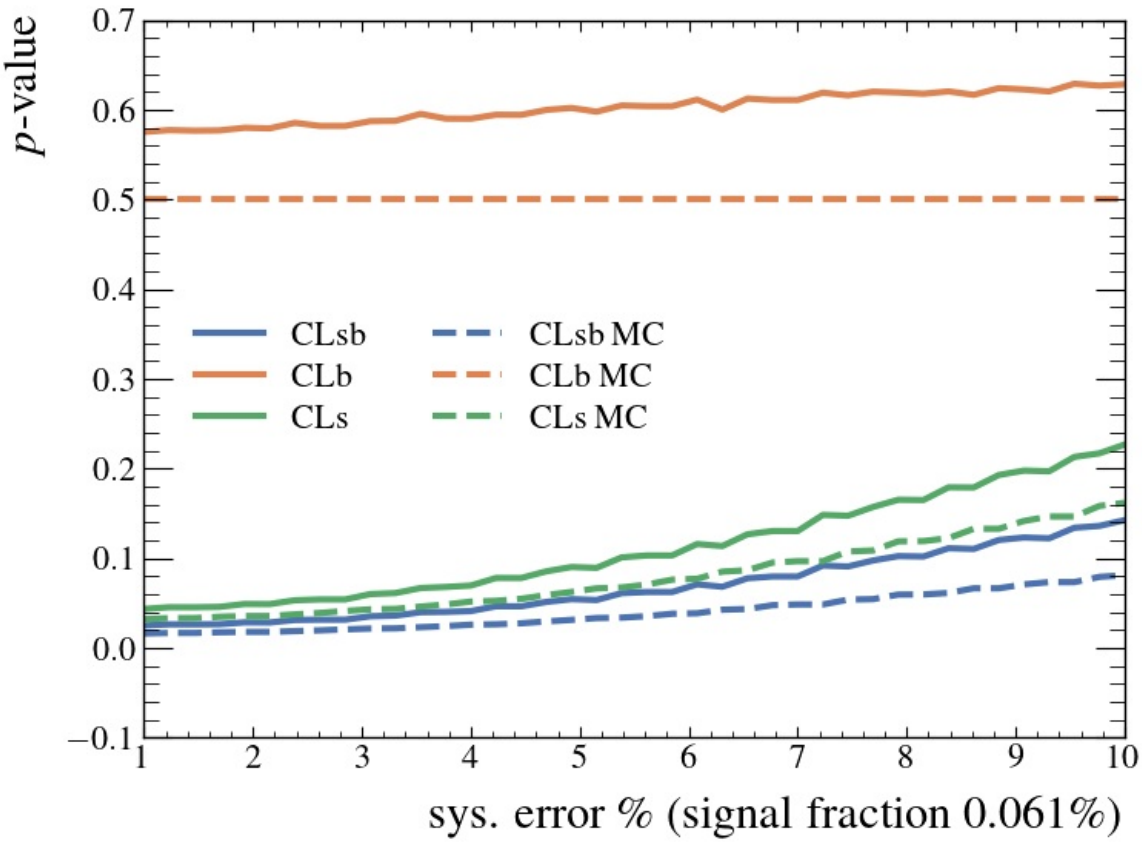

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.049%)

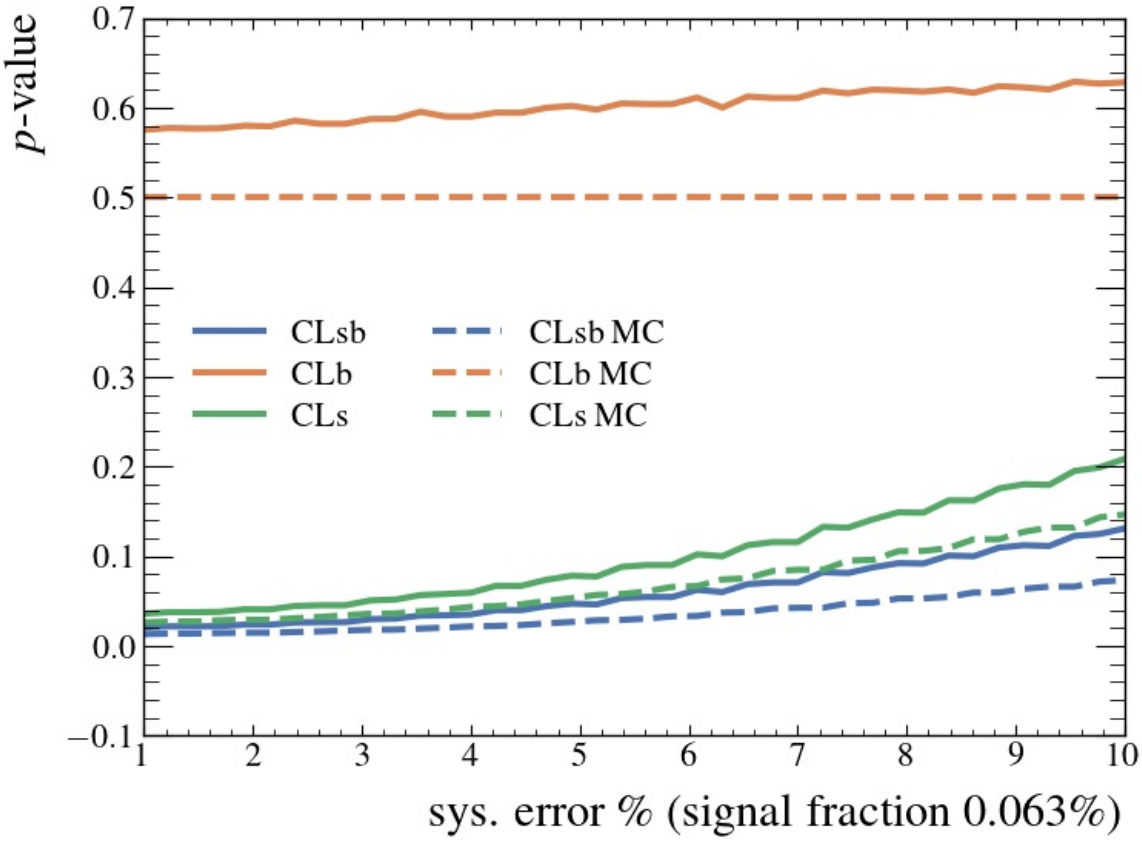

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.052%)

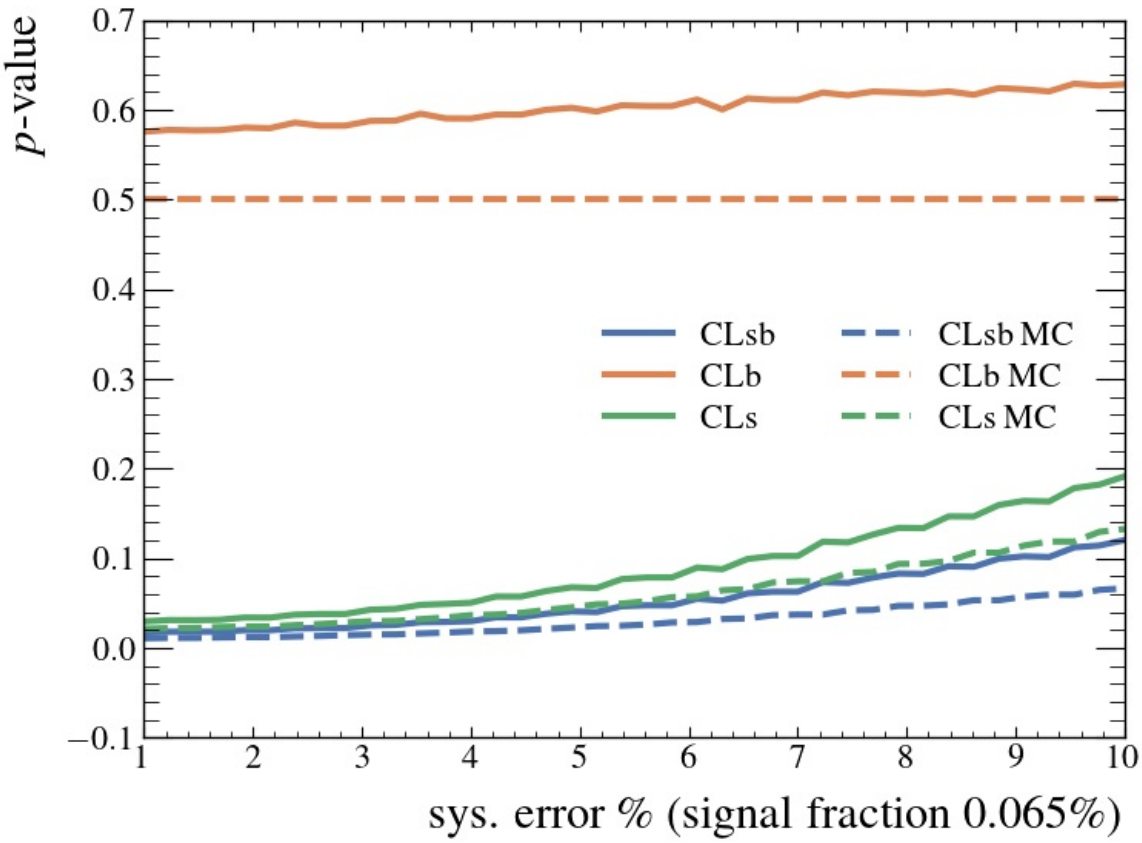

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.054%)

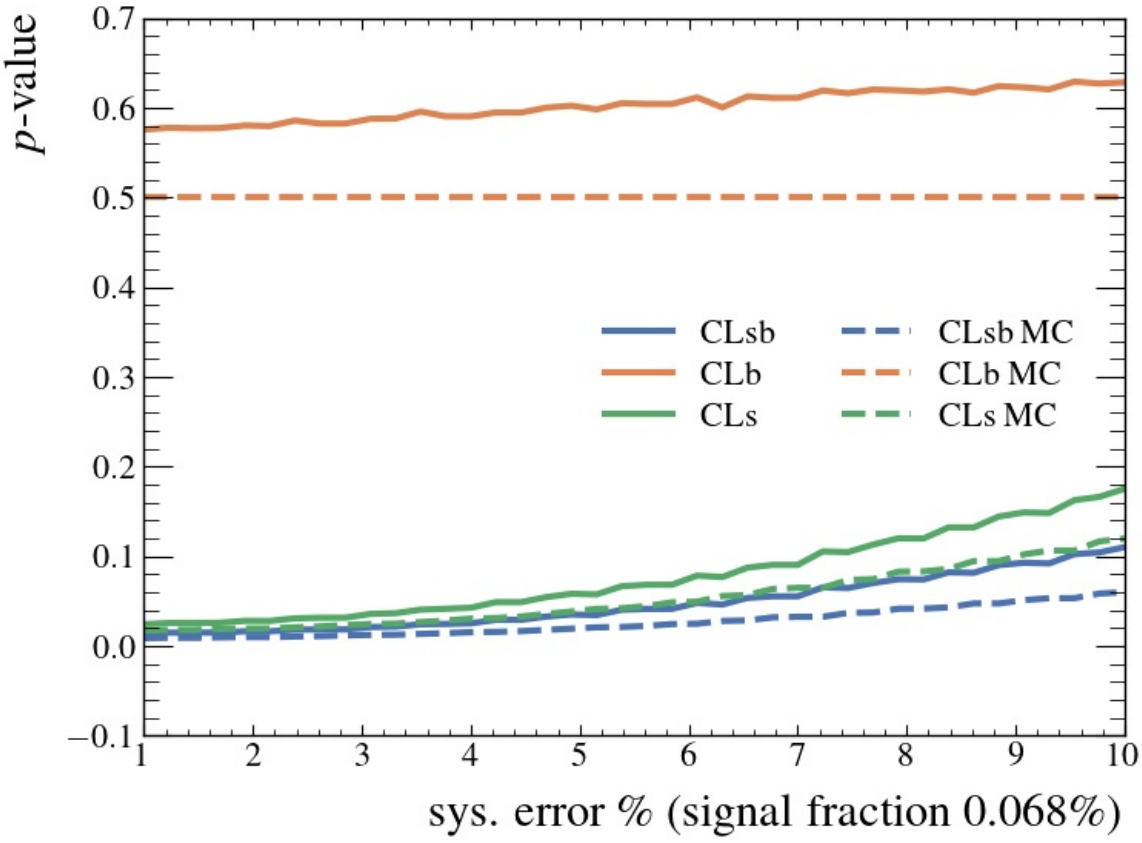

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.056%)

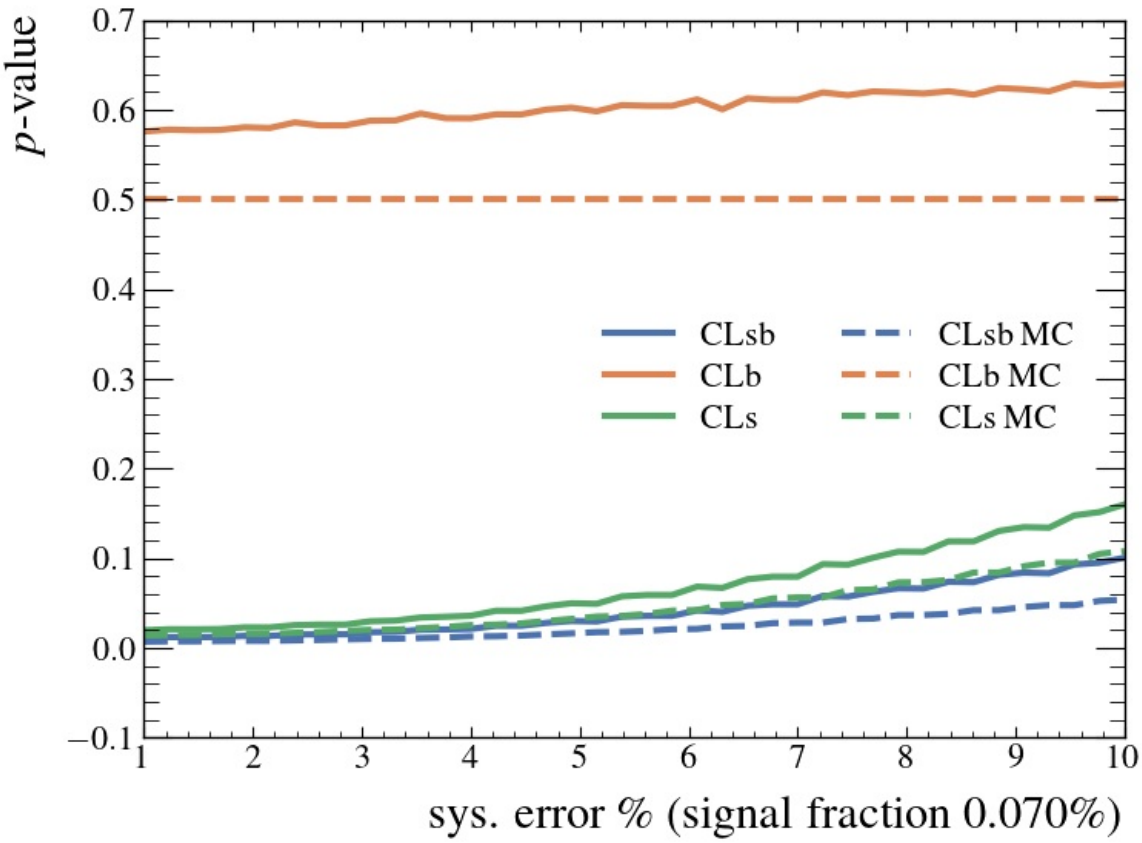

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.058%)

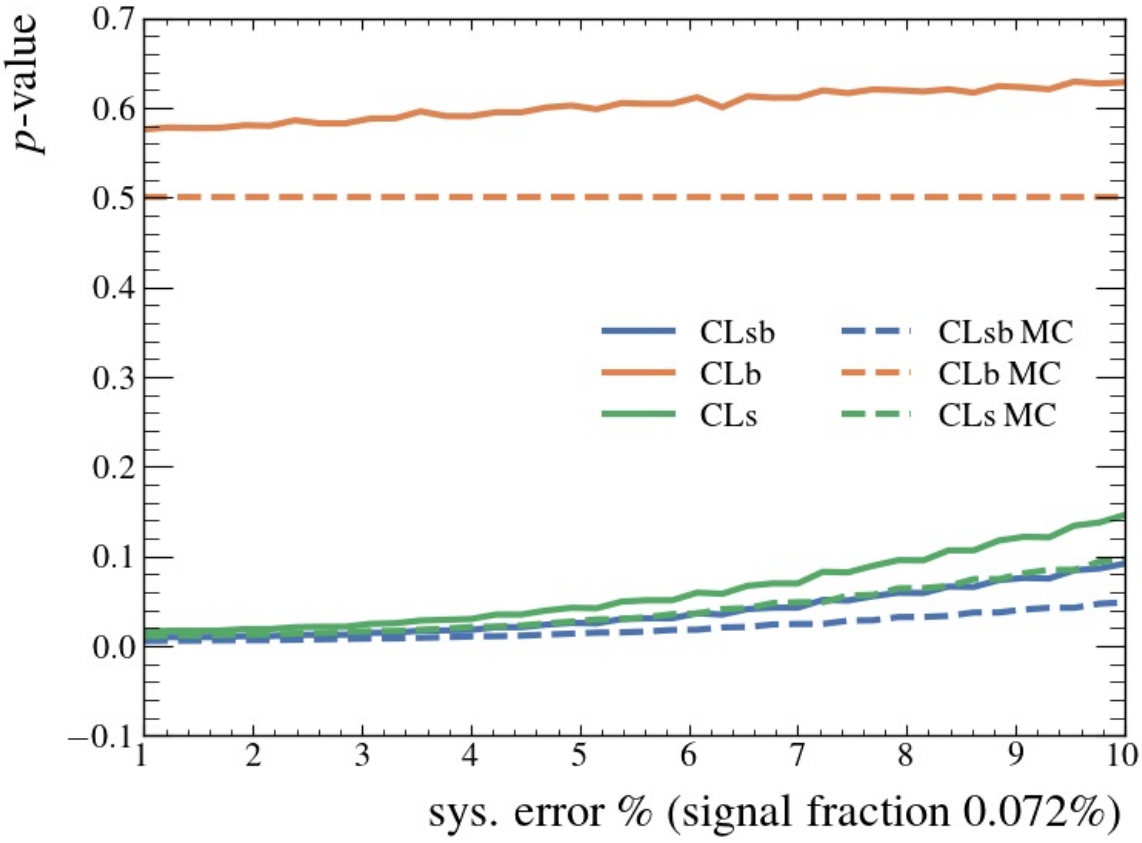

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.061%)

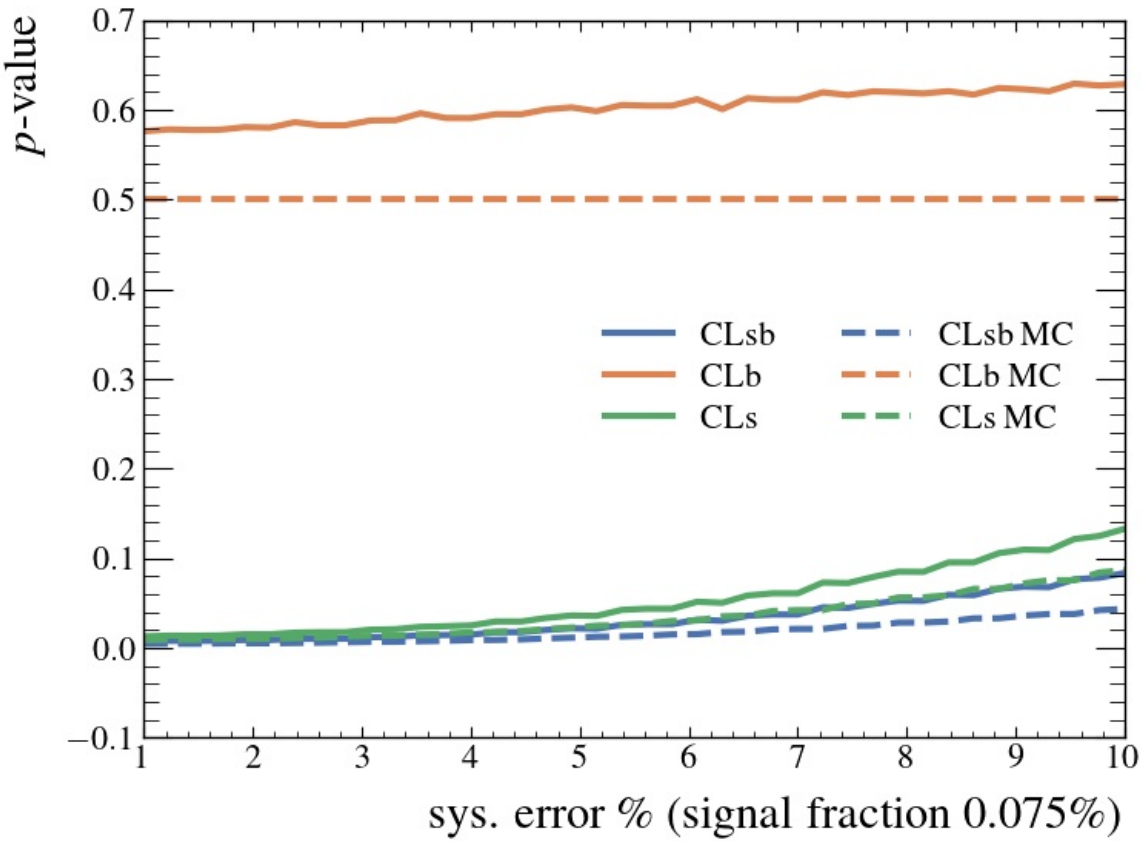

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.063%)

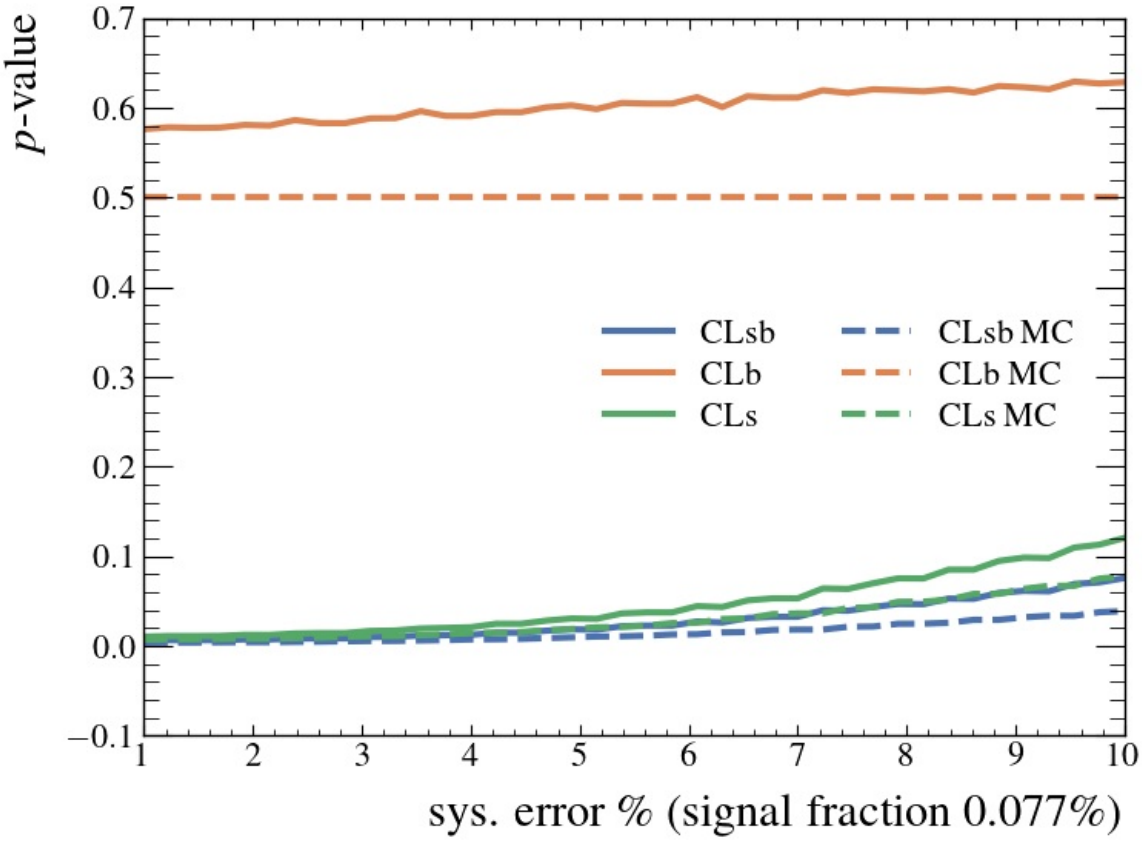

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.065%)

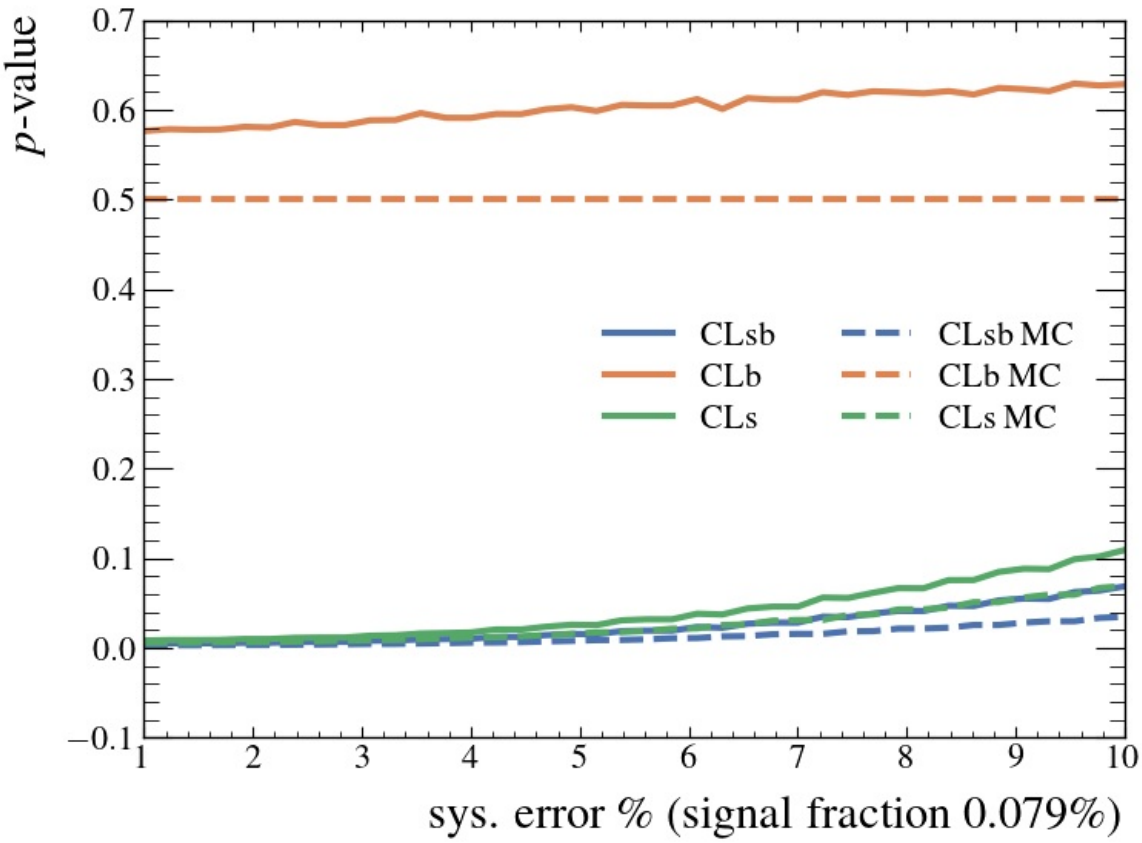

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.068%)

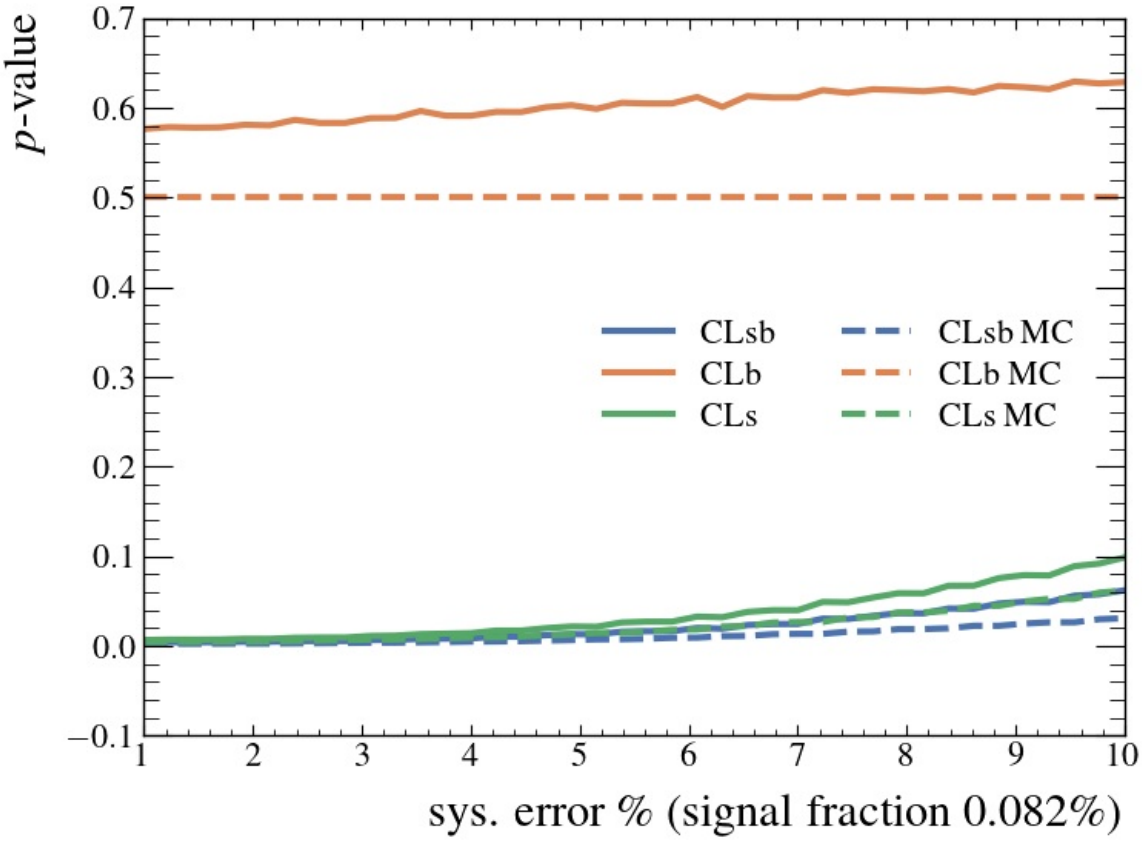

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.070%)

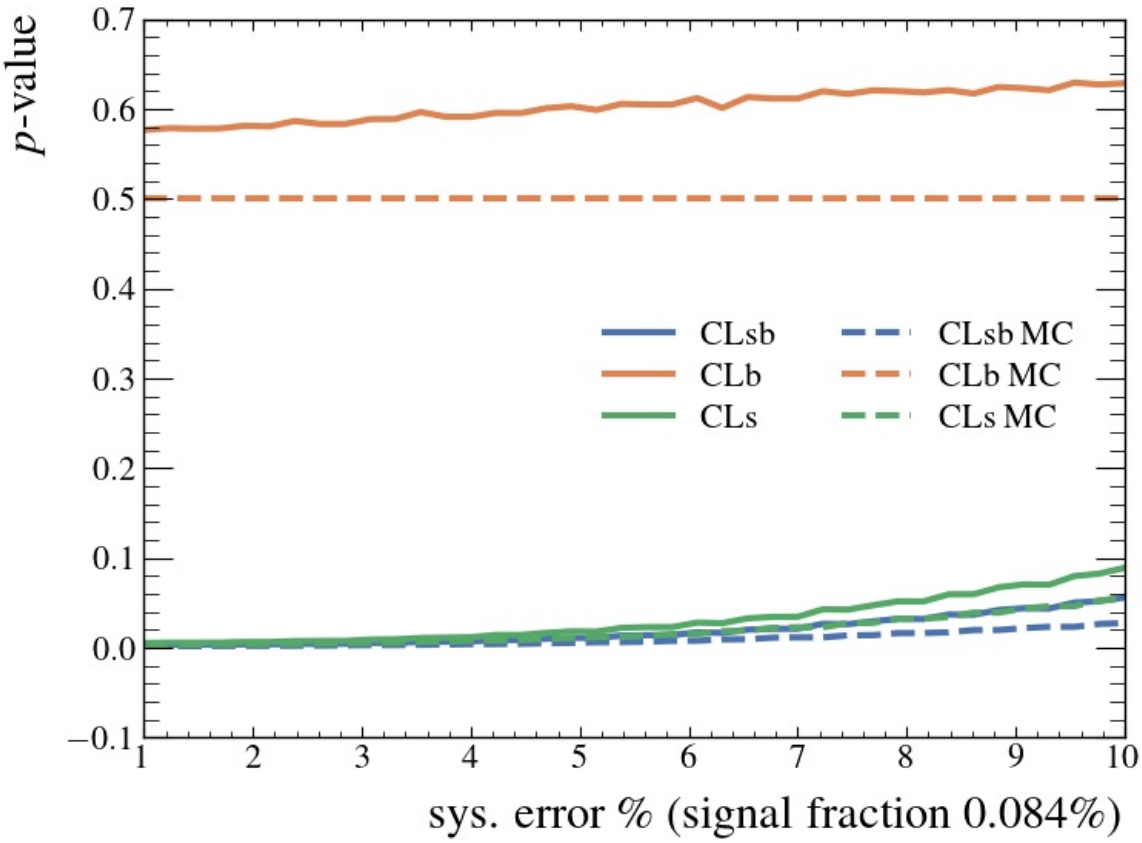

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.072%)

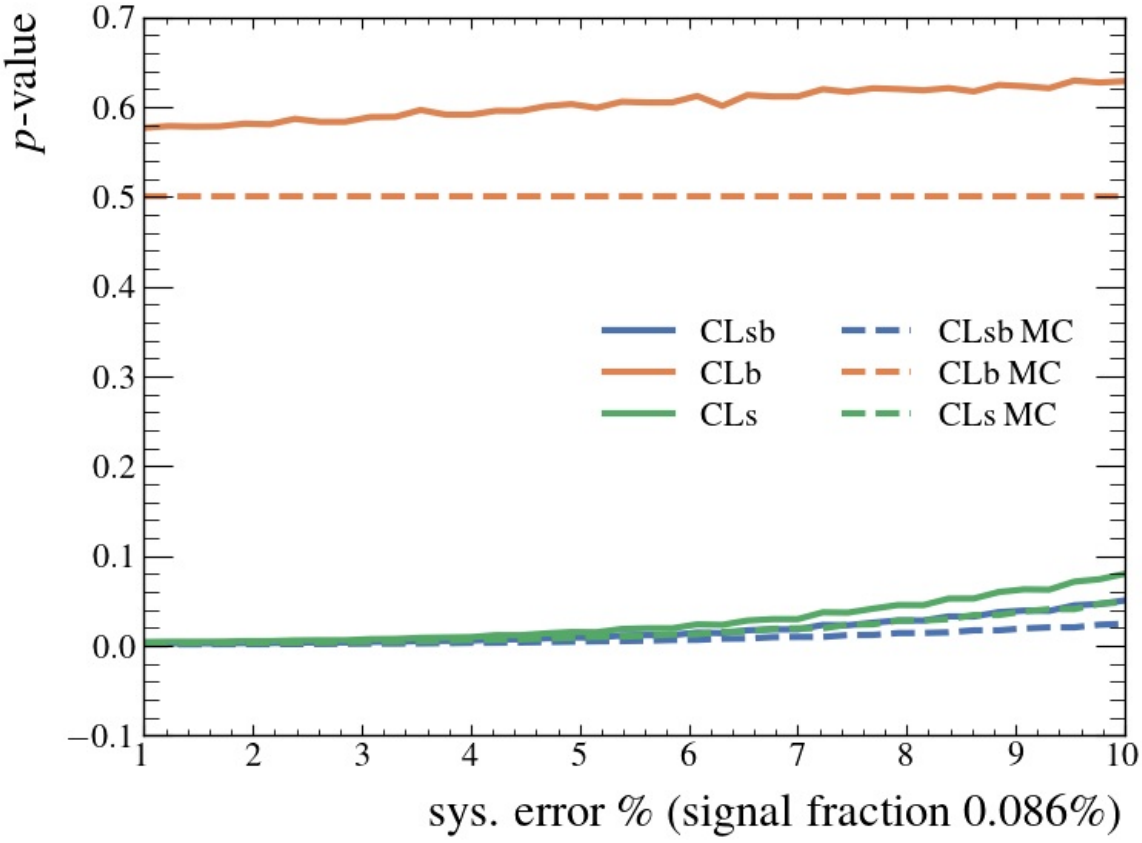

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.075%)

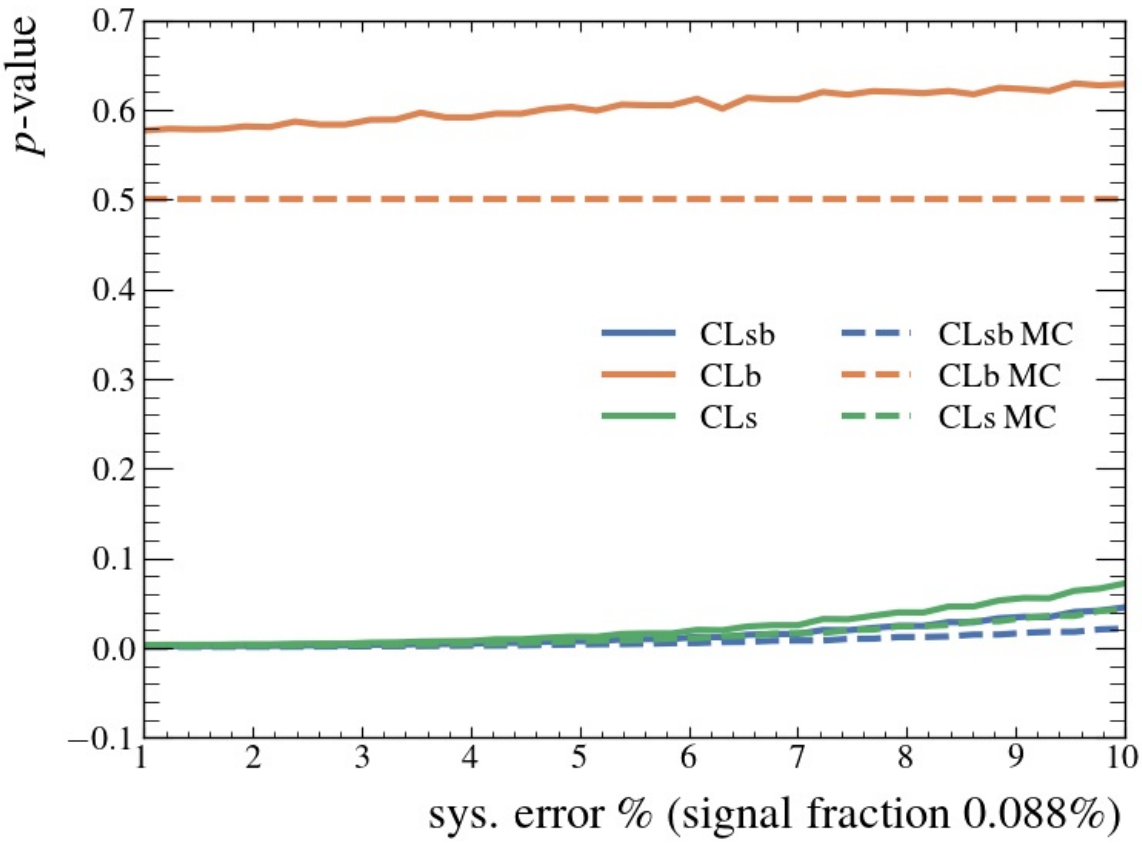

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.077%)

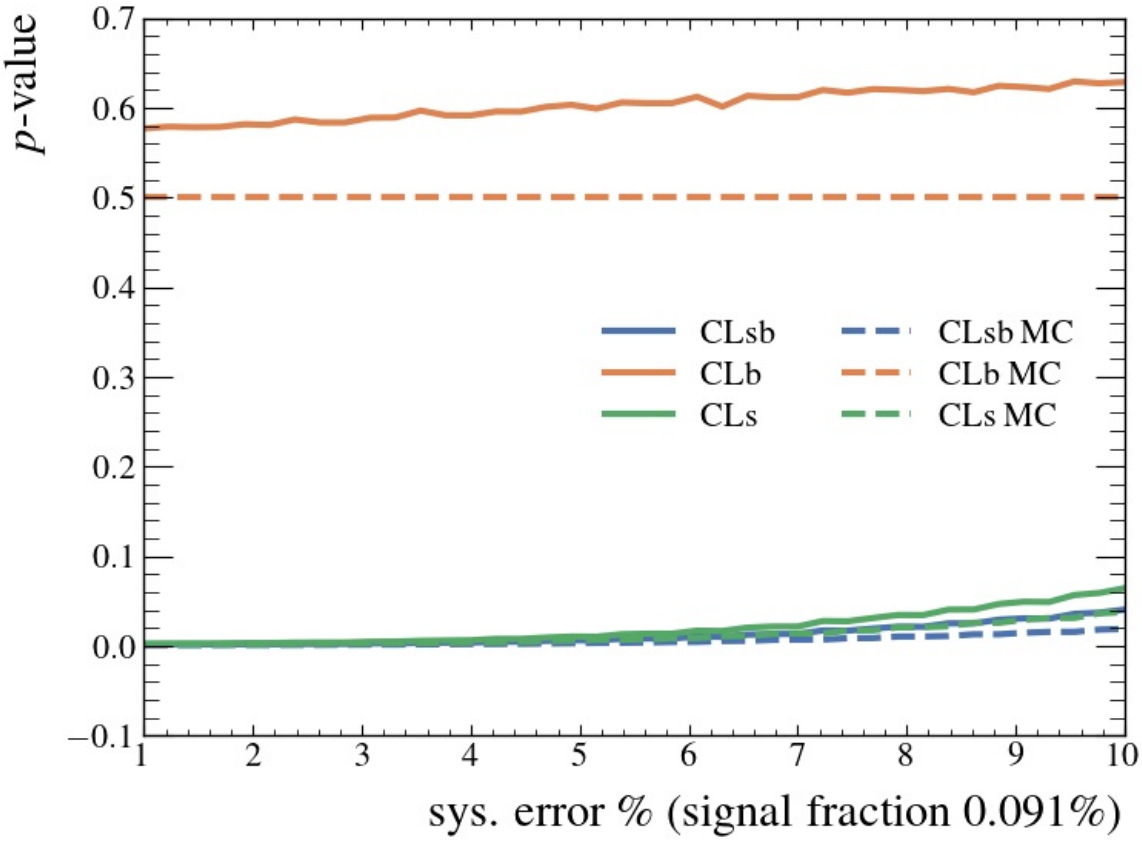

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.079%)

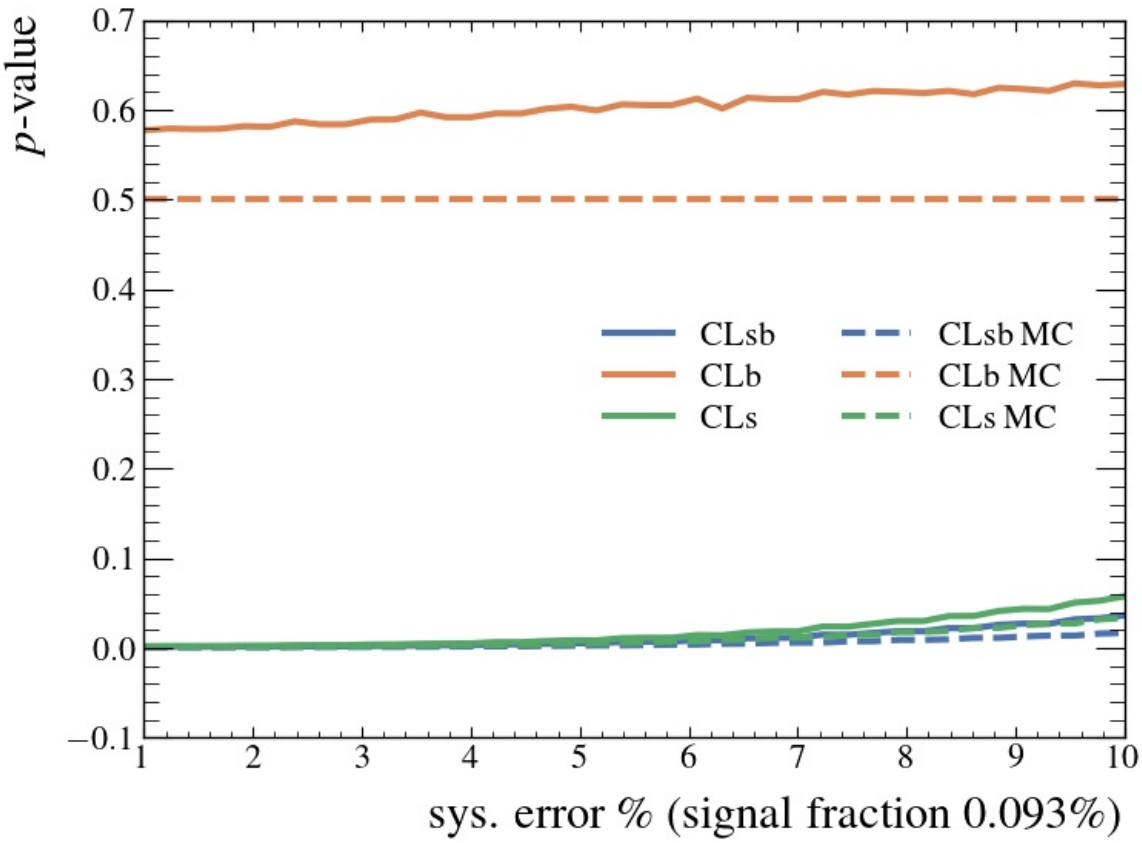

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.082%)

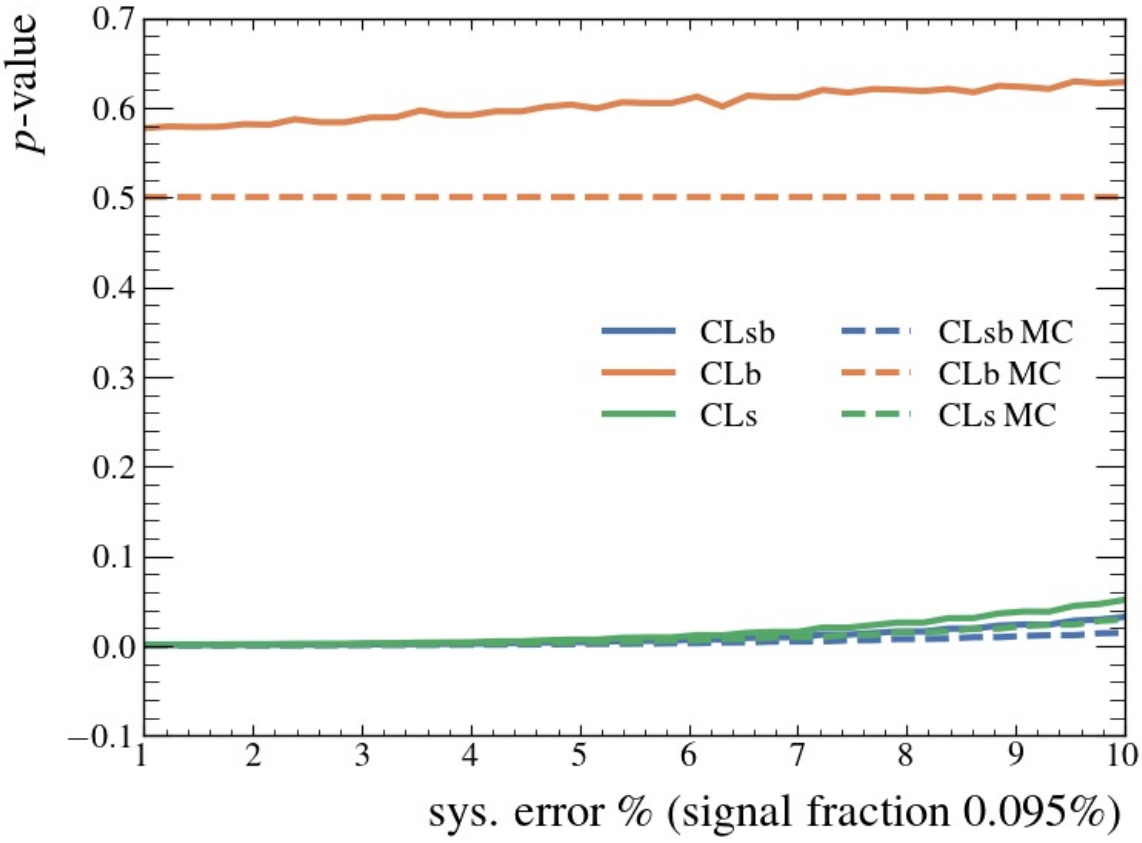

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.084%)

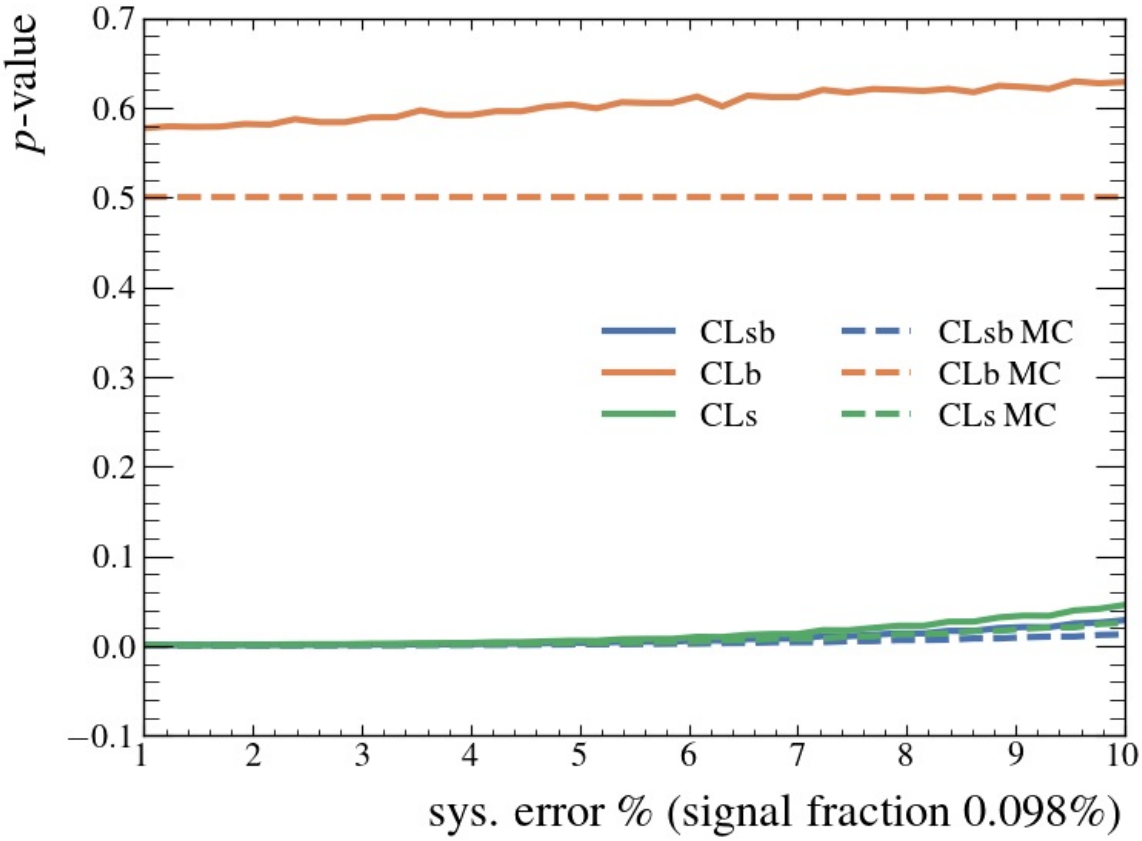

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.086%)

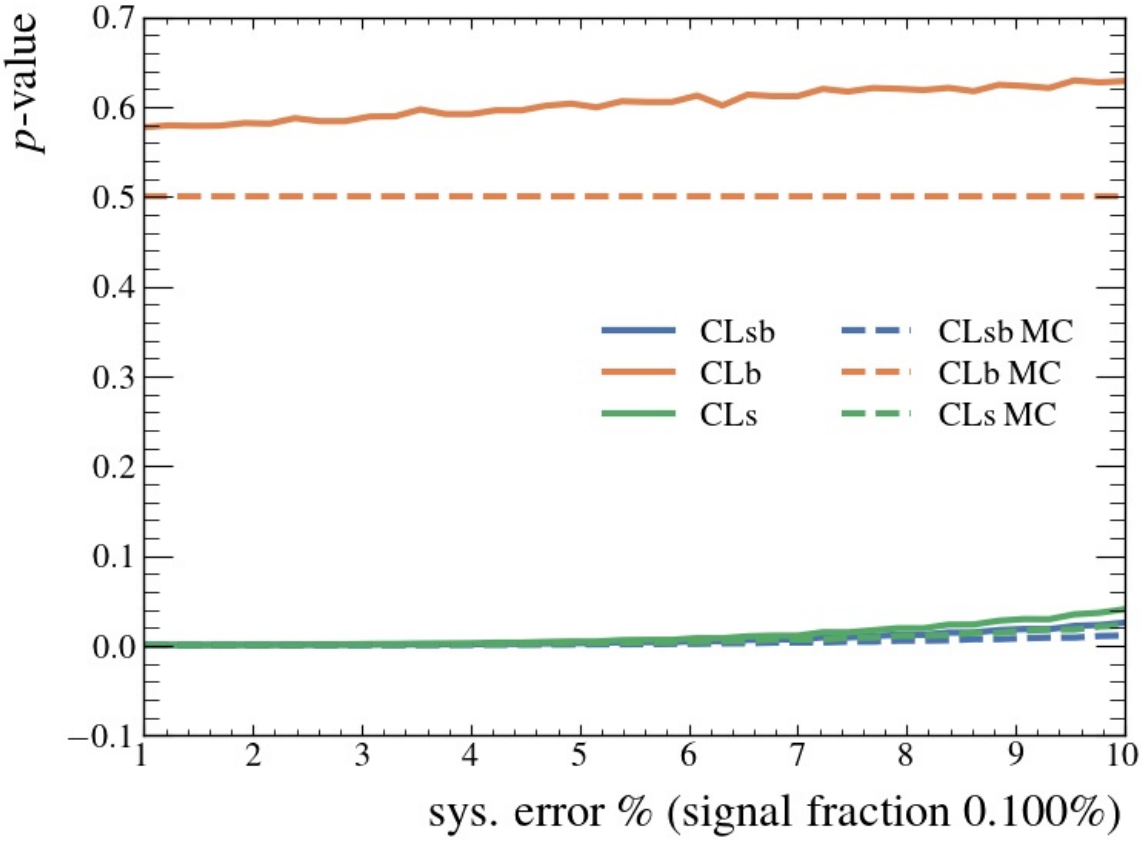

p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.088%)


p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.091%)


p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.093%)


p-value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
sys. error % (signal fraction 0.095%)

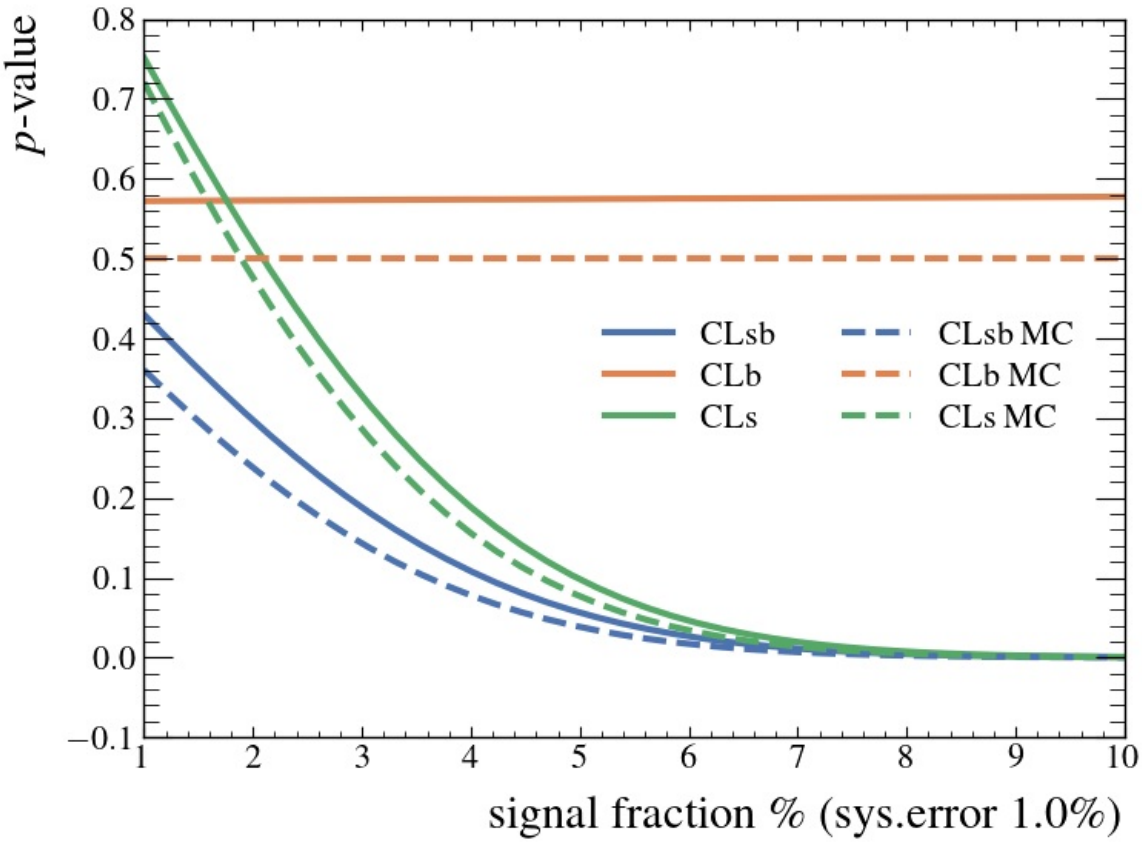


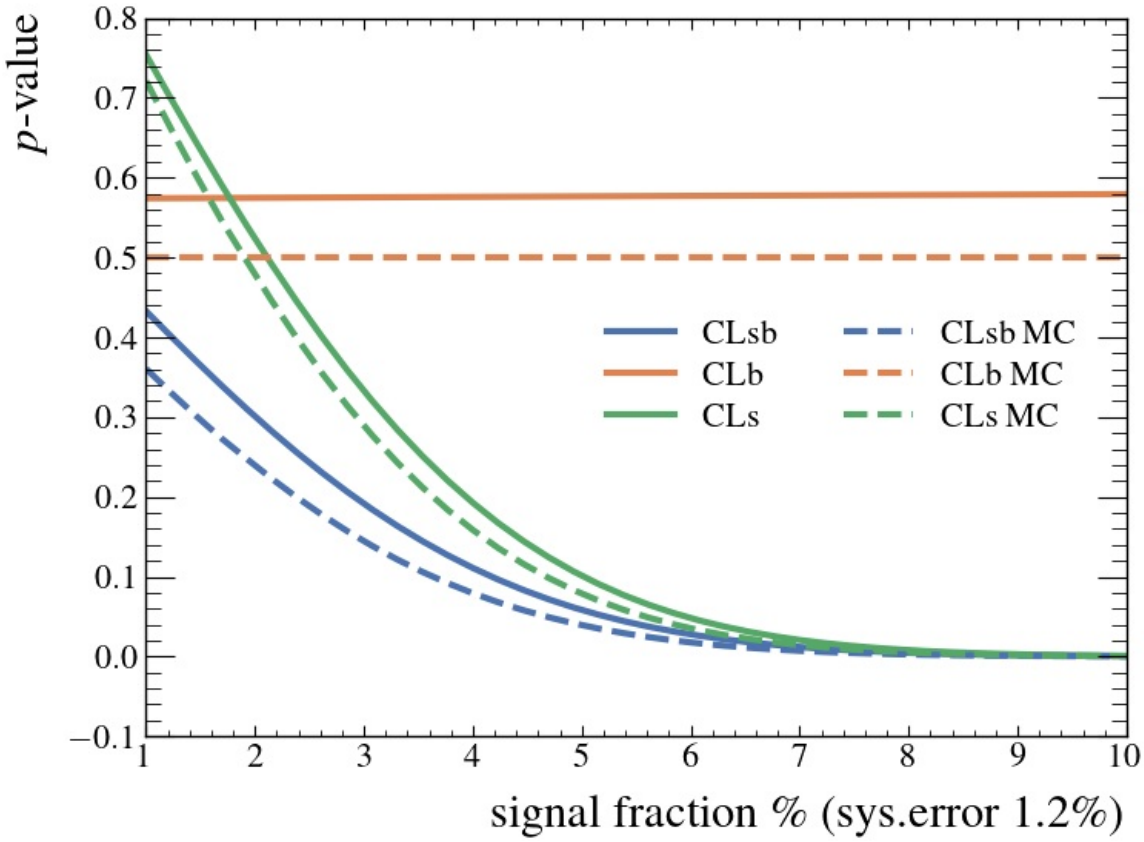


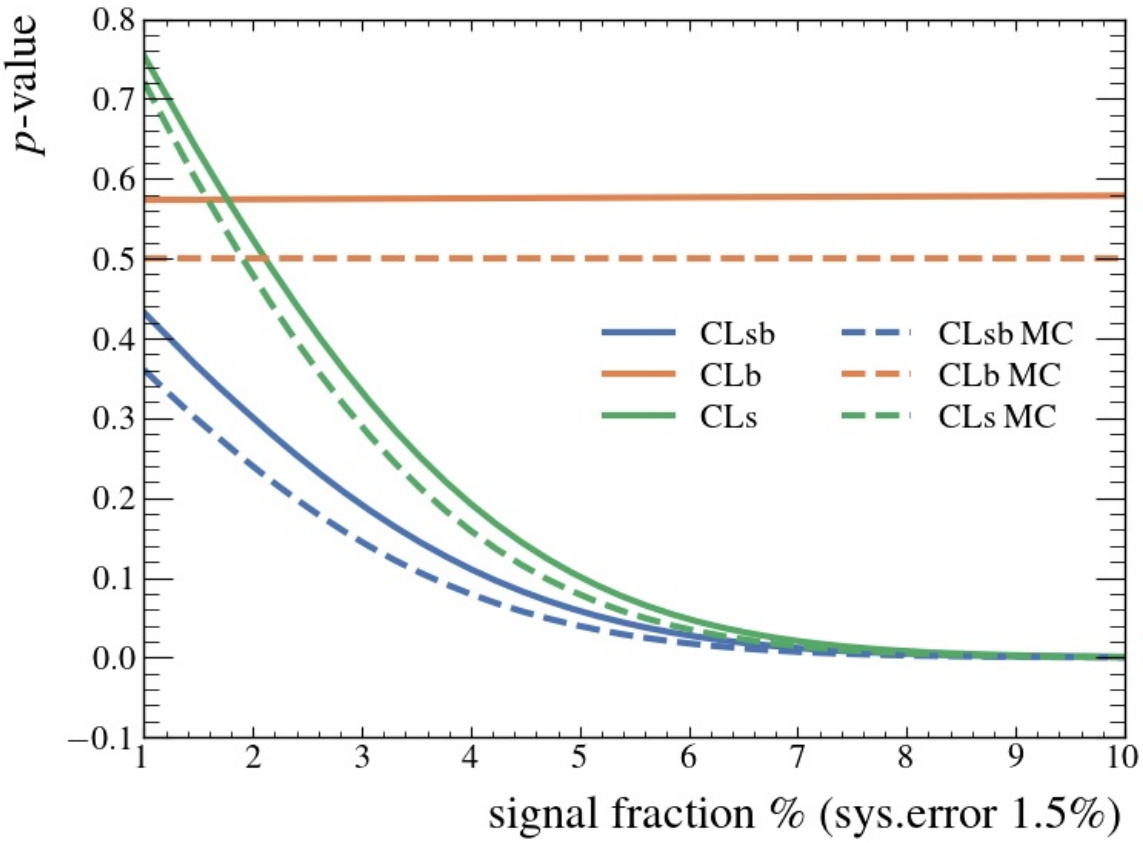
In [21]:
```
# plt.plot(mc_["bkg_err"] * 100, mc_["p_sb"] - ml_["p_sb"], ls='-', c='C0', lw=3)
# plt.plot(mc_["bkg_err"] * 100, mc_["p_b"] - ml_["p_b"], ls='-', c='C1', lw=3)
# plt.plot(mc_["bkg_err"] * 100, mc_["p_s"] - ml_["p_s"], ls='-', c='C2', lw=3)

# plt.legend(["CLsb MC - CLsb", "CLb MC - CLb", "CLs MC - CLs"])

# plt.xlabel("sys. error \% (signal fraction {:.2f}\%)".format(f), fontsize=22)
# plt.ylabel("$p$-value difference", fontsize=22)
# plt.tight_layout()

# plt.savefig(saved + "CLs_q0_mu0_bkg_errs_diff.pdf")
```

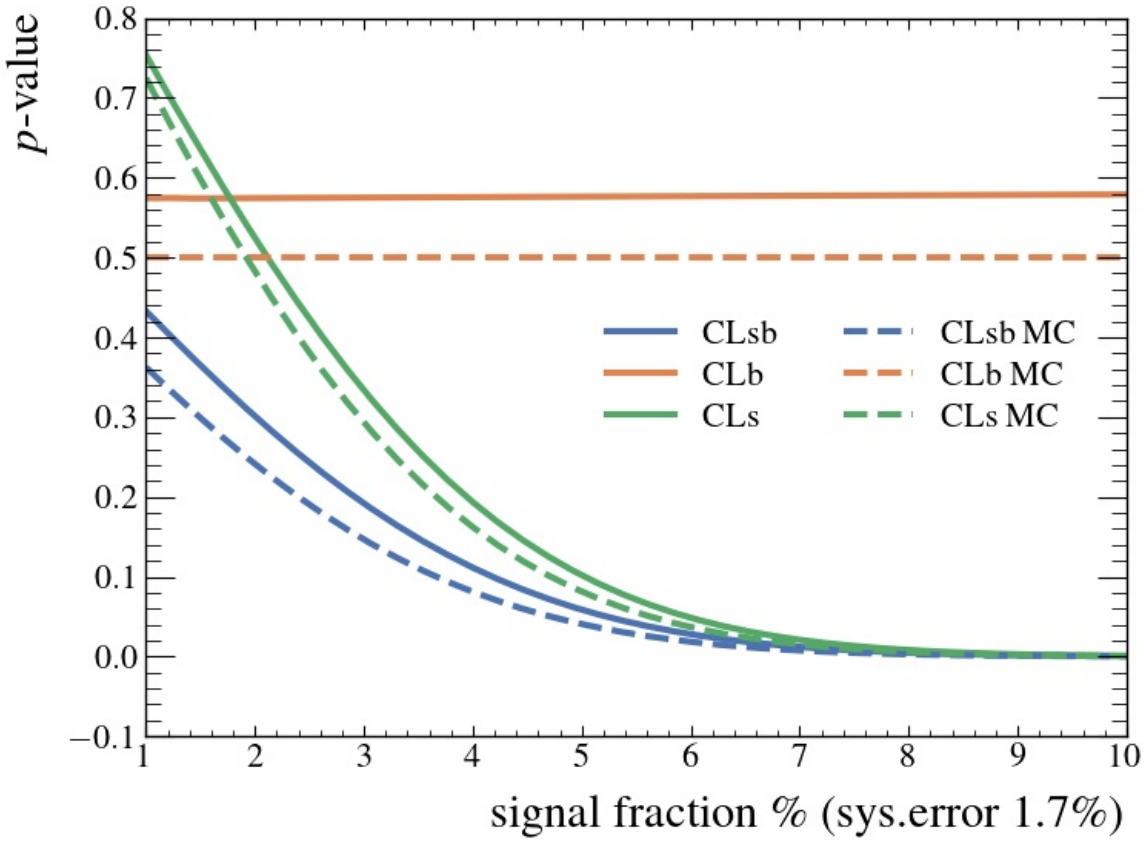
Constant background error

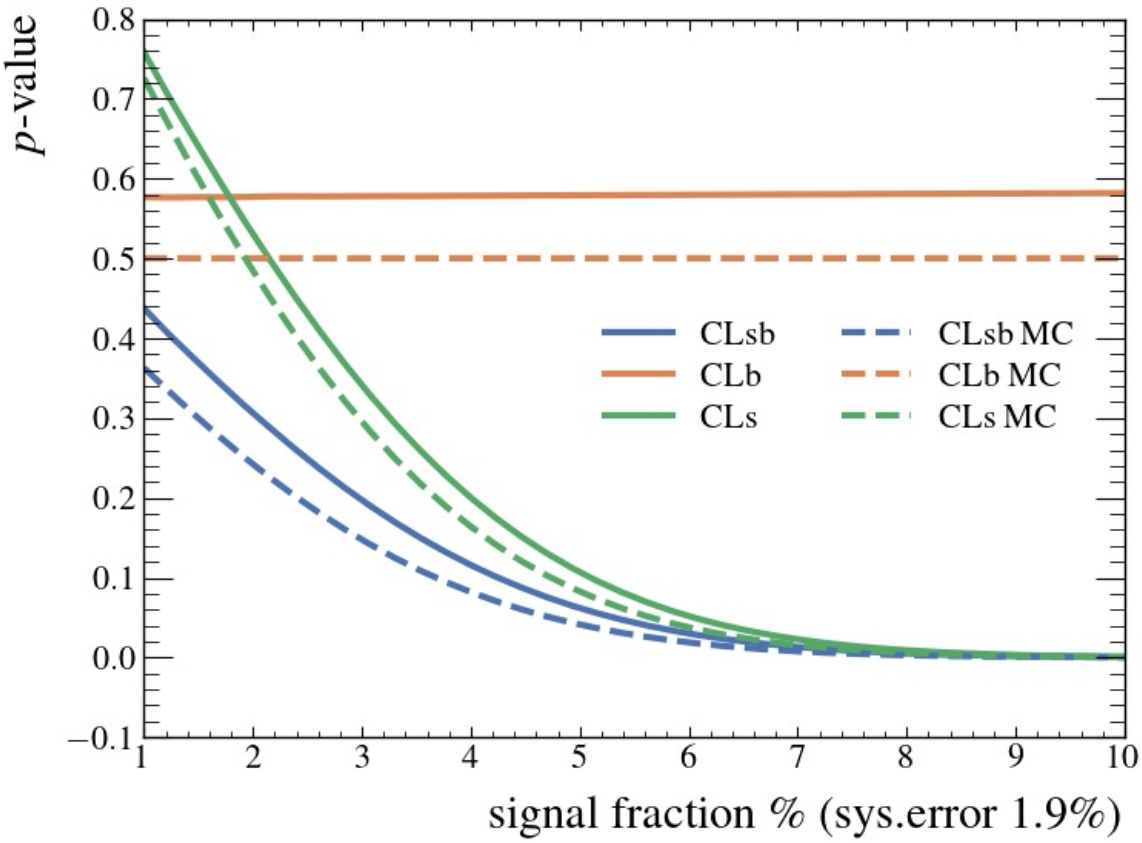
In [22]:
```
for i, f in enumerate(bkg_errs):
    ml_ = ml_res[ml_res["bkg_err"] == f]
    mc_ = mc_res[mc_res["bkg_err"] == f]

    plt.plot(ml_["sig_frac"] * 100, ml_["p_sb"], c="C0", lw=3)
    plt.plot(ml_["sig_frac"] * 100, ml_["p_b"], c="C1", lw=3)
    plt.plot(ml_["sig_frac"] * 100, ml_["p_s"], c="C2", lw=3)

    plt.plot(mc_["sig_frac"] * 100, mc_["p_sb"], ls='--', c='C0', lw=3)
    plt.plot(mc_["sig_frac"] * 100, mc_["p_b"], ls='--', c='C1', lw=3)
    plt.plot(mc_["sig_frac"] * 100, mc_["p_s"], ls='--', c='C2', lw=3)

    plt.legend(["CLsb", "CLb", "CLs", "CLsb MC", "CLb MC", "CLs MC"], ncol=2)

    plt.xlabel(f"signal fraction \% (sys.error {100*f:.1f}\%)", fontsize=22)
    plt.ylabel("$p$-value", fontsize=22)
    plt.tight_layout()

    plt.savefig(saved + f"CLs_q0_mu0_sig_fracs_{i}.pdf")
    plt.show()
```

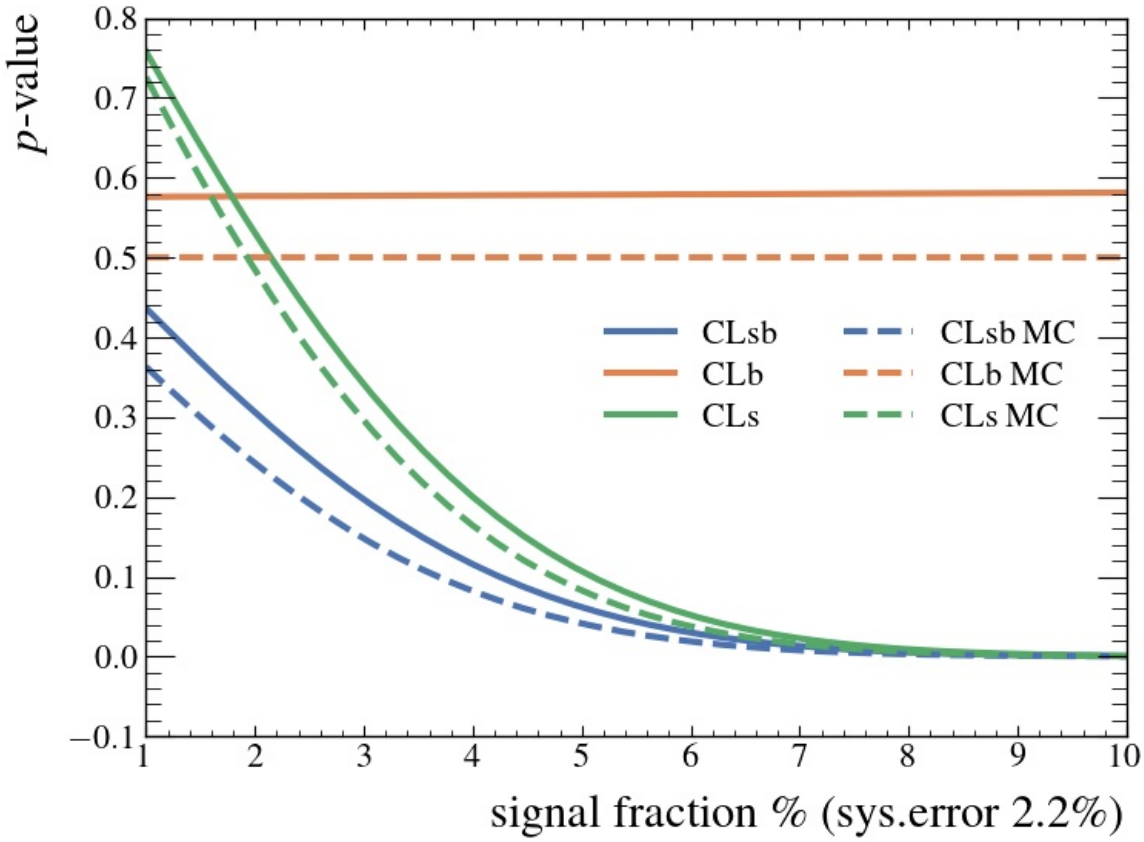


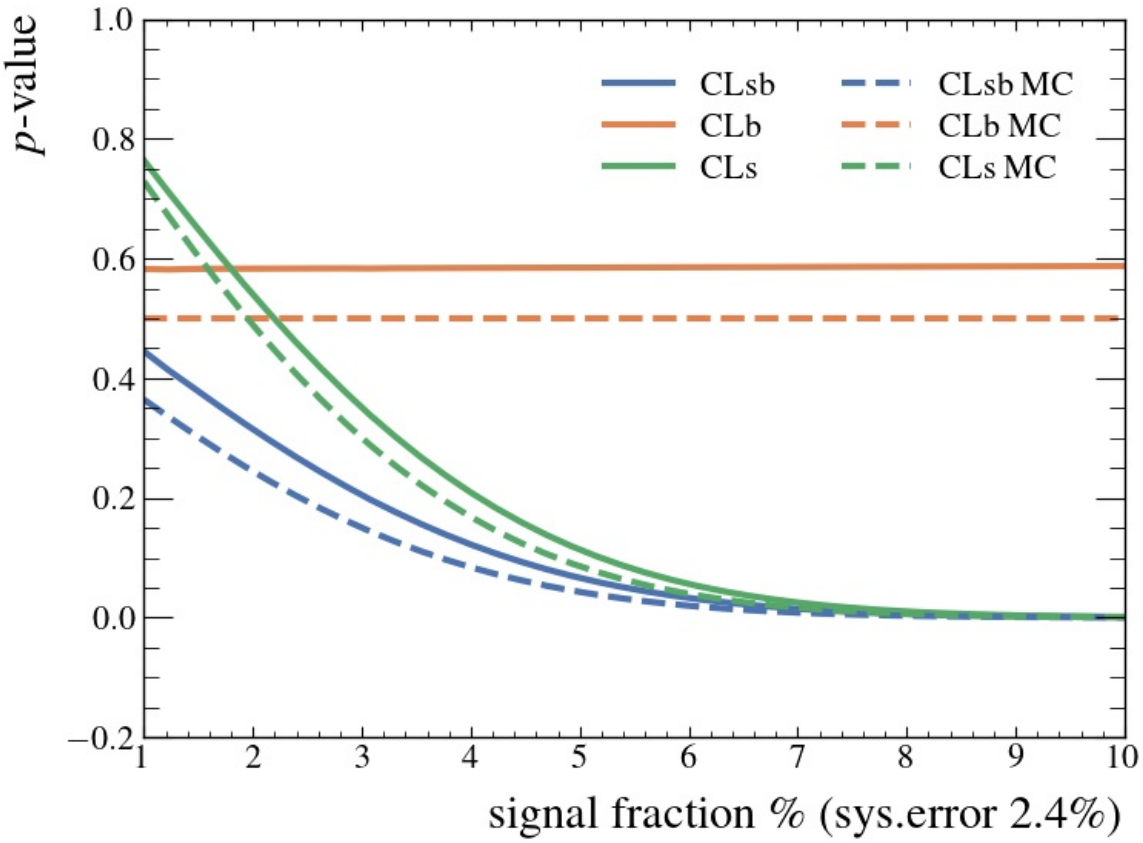

p-value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 1.2%)

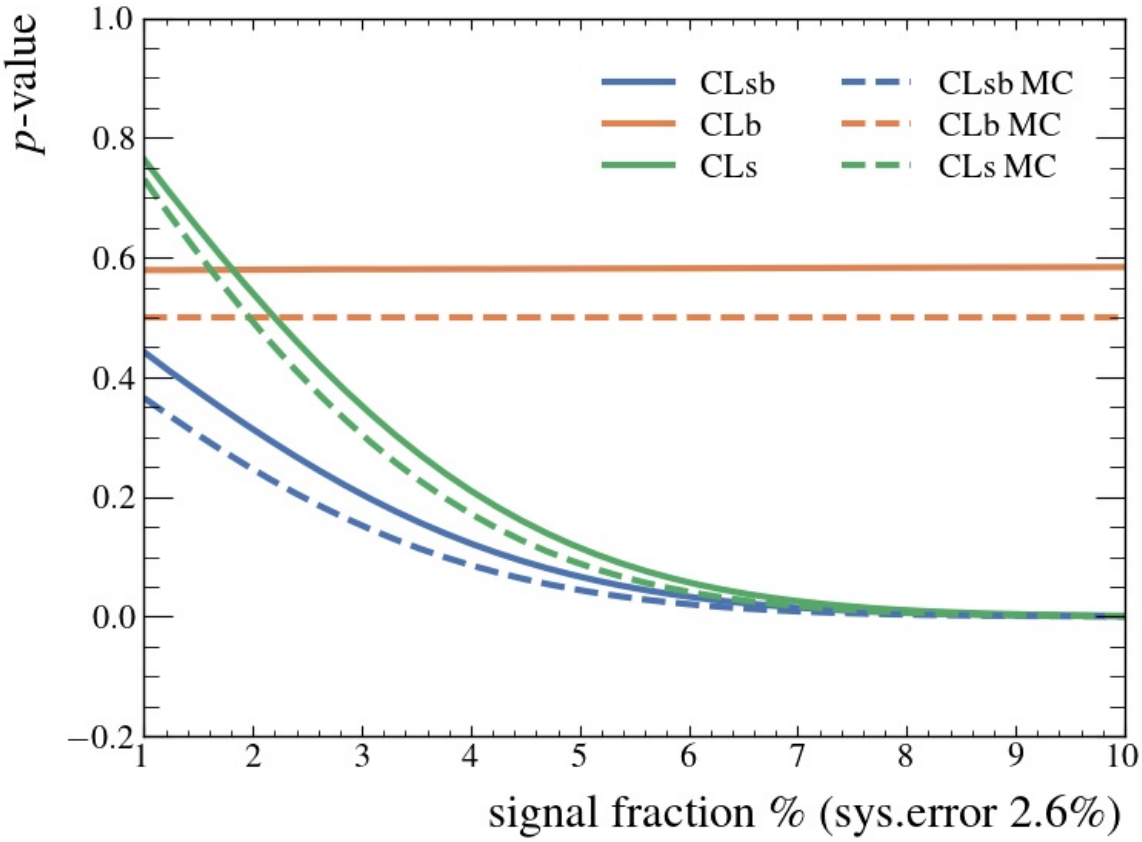

p-value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 1.5%)

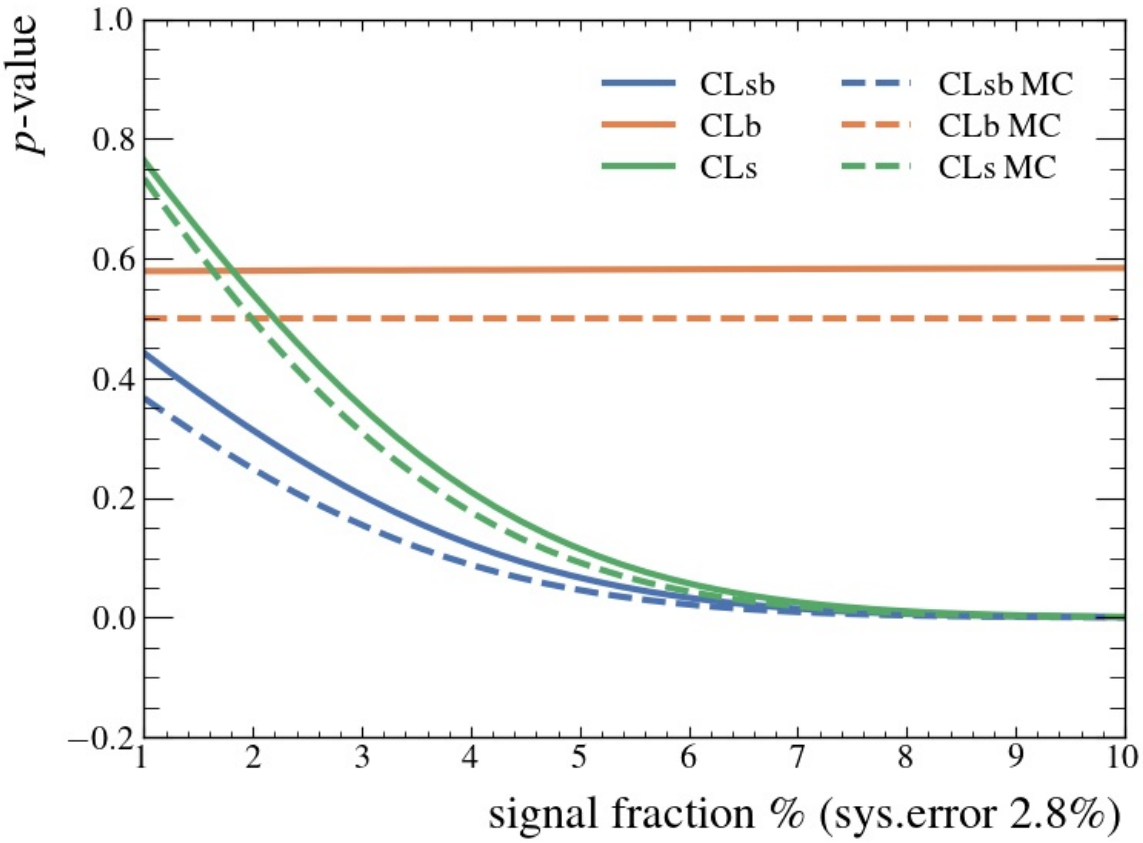

p-value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 1.7%)

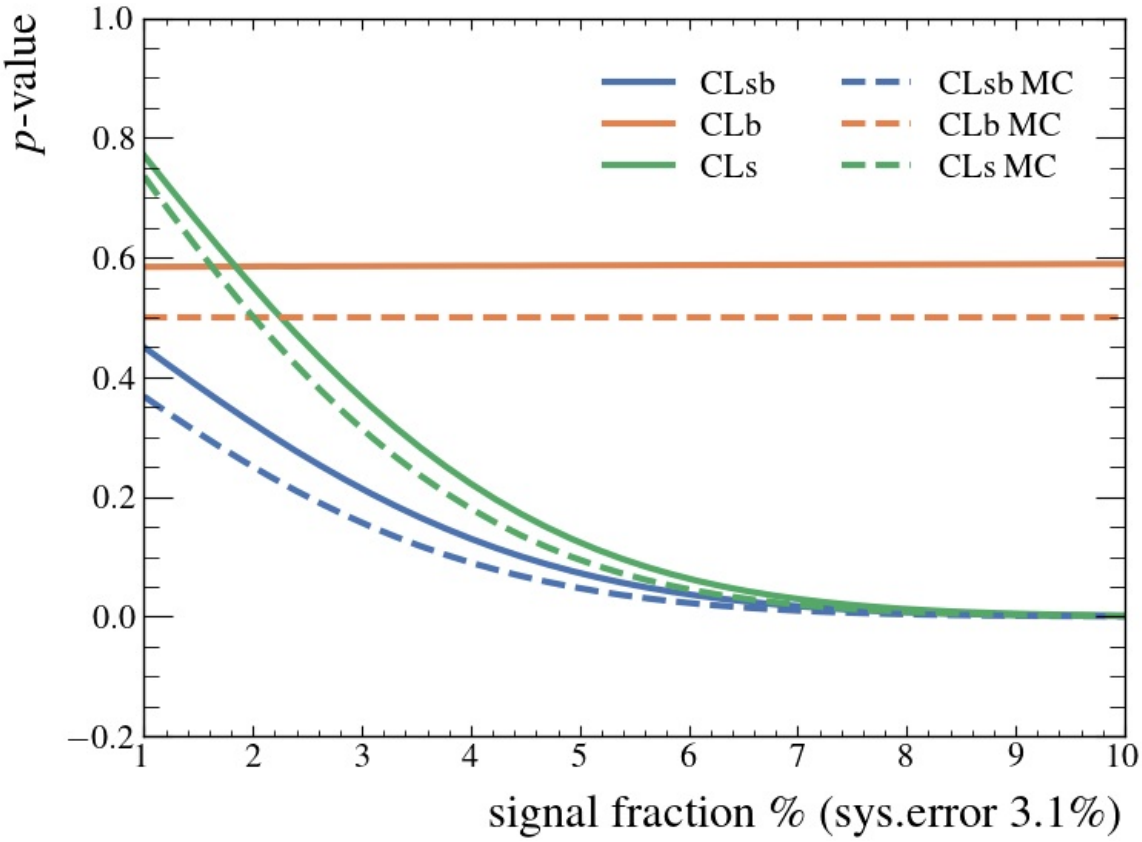

p-value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 1.9%)

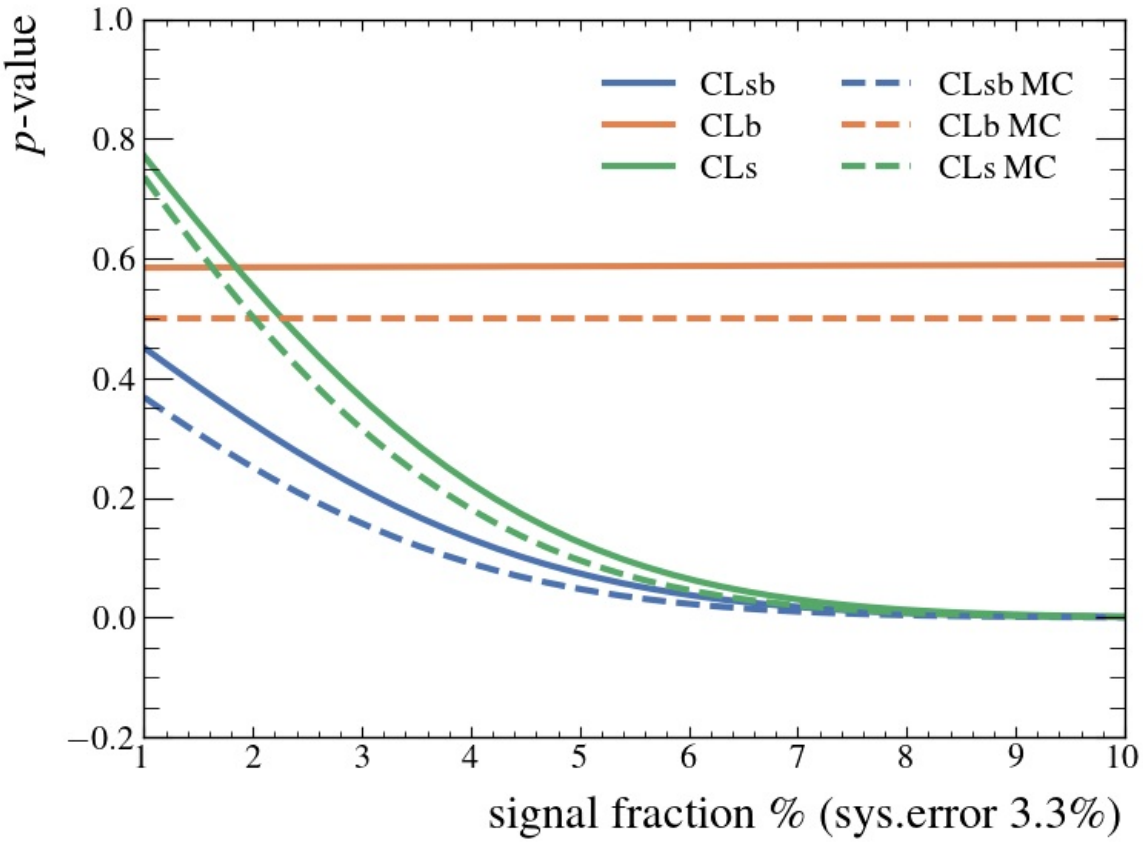

p-value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 2.2%)

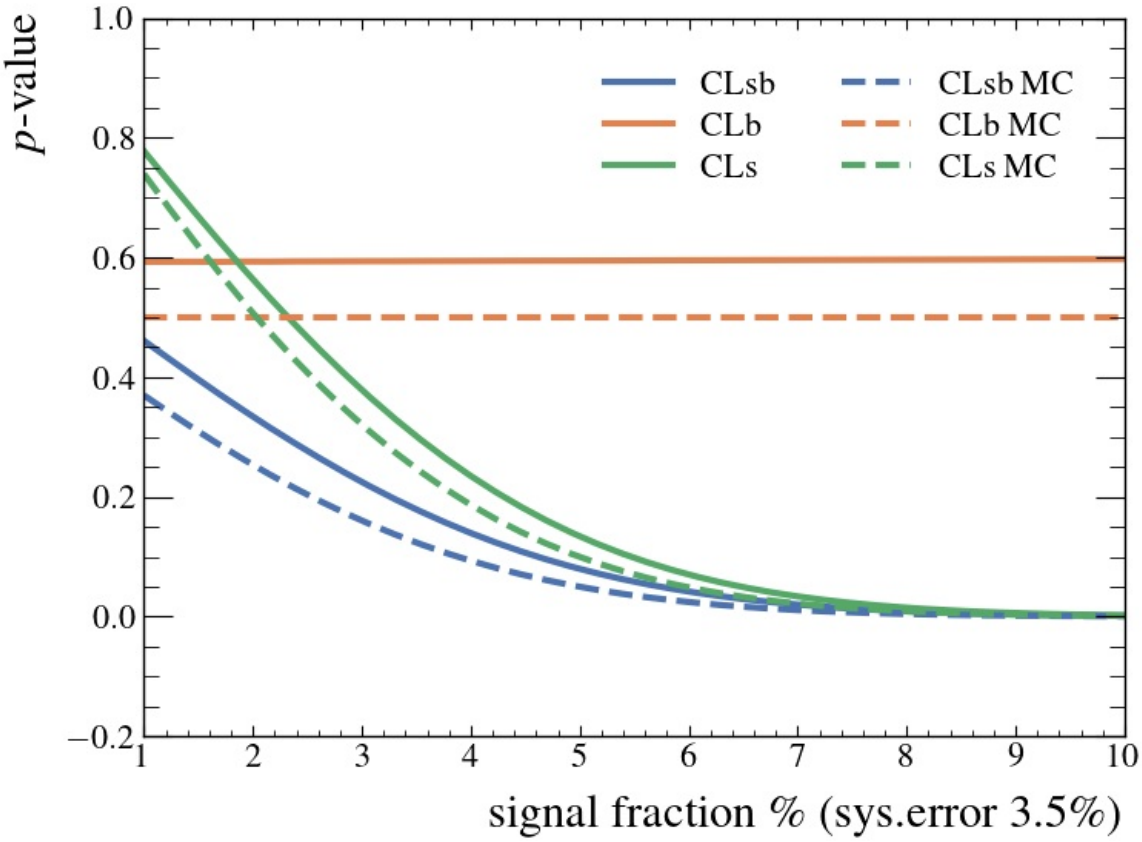

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 2.4%)

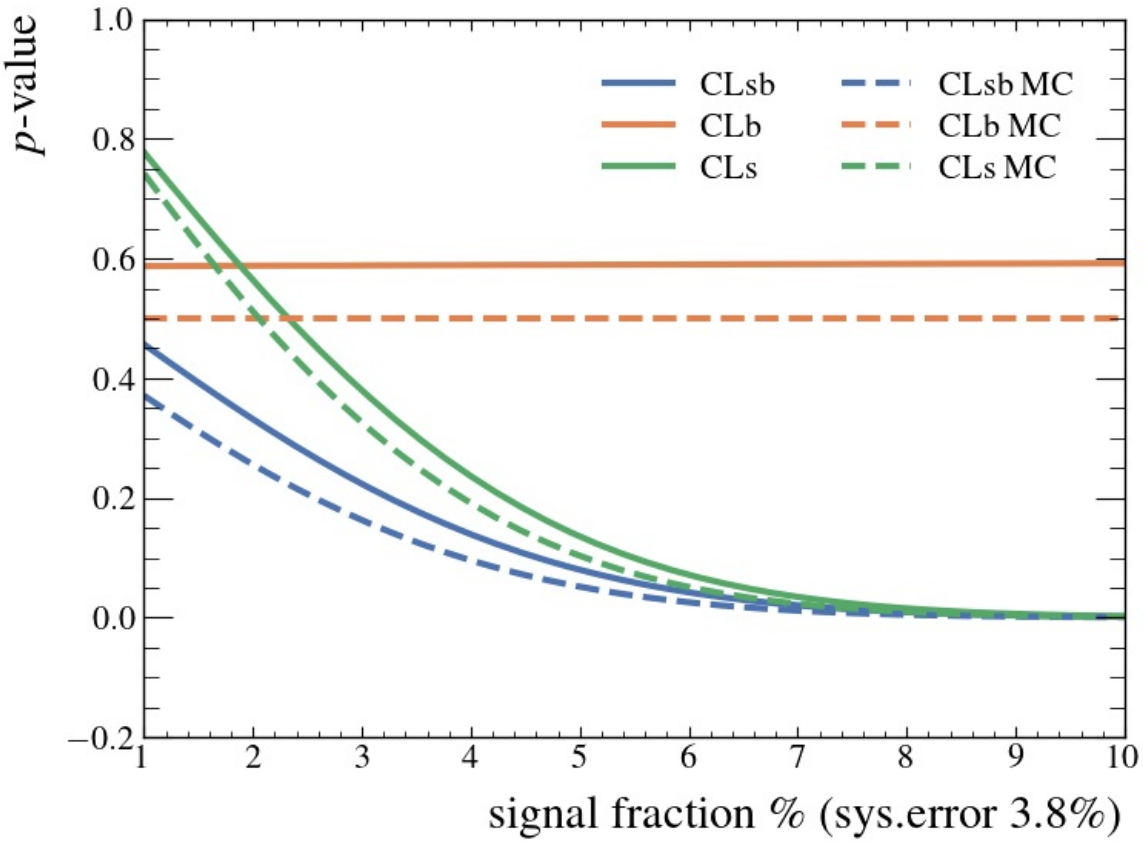

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 2.6%)

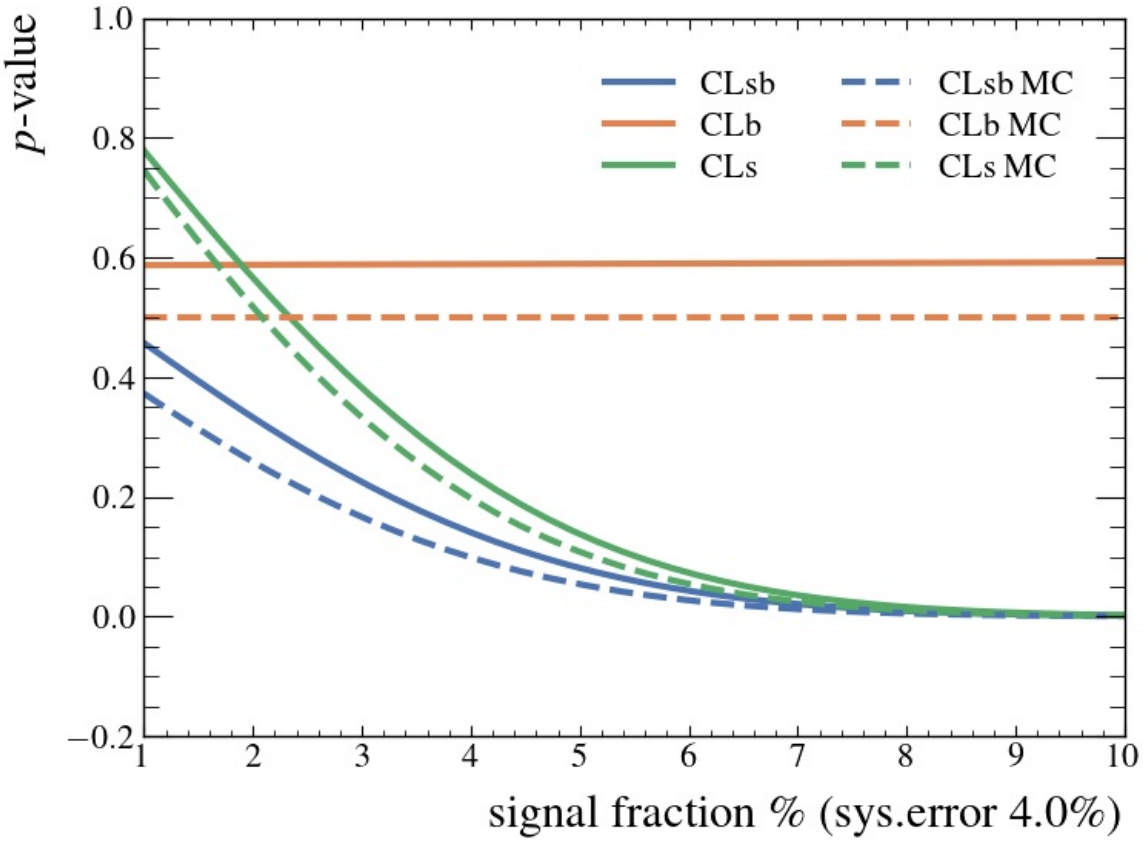

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 2.8%)

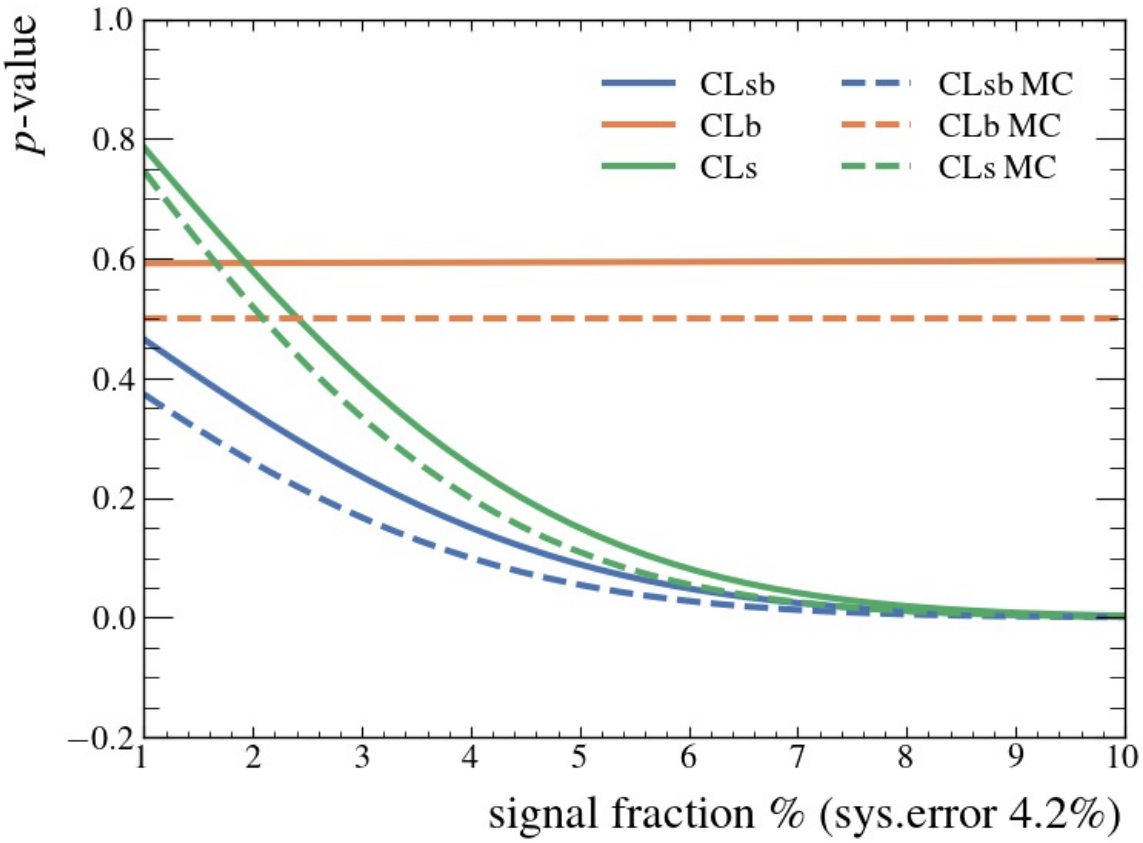

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 3.1%)

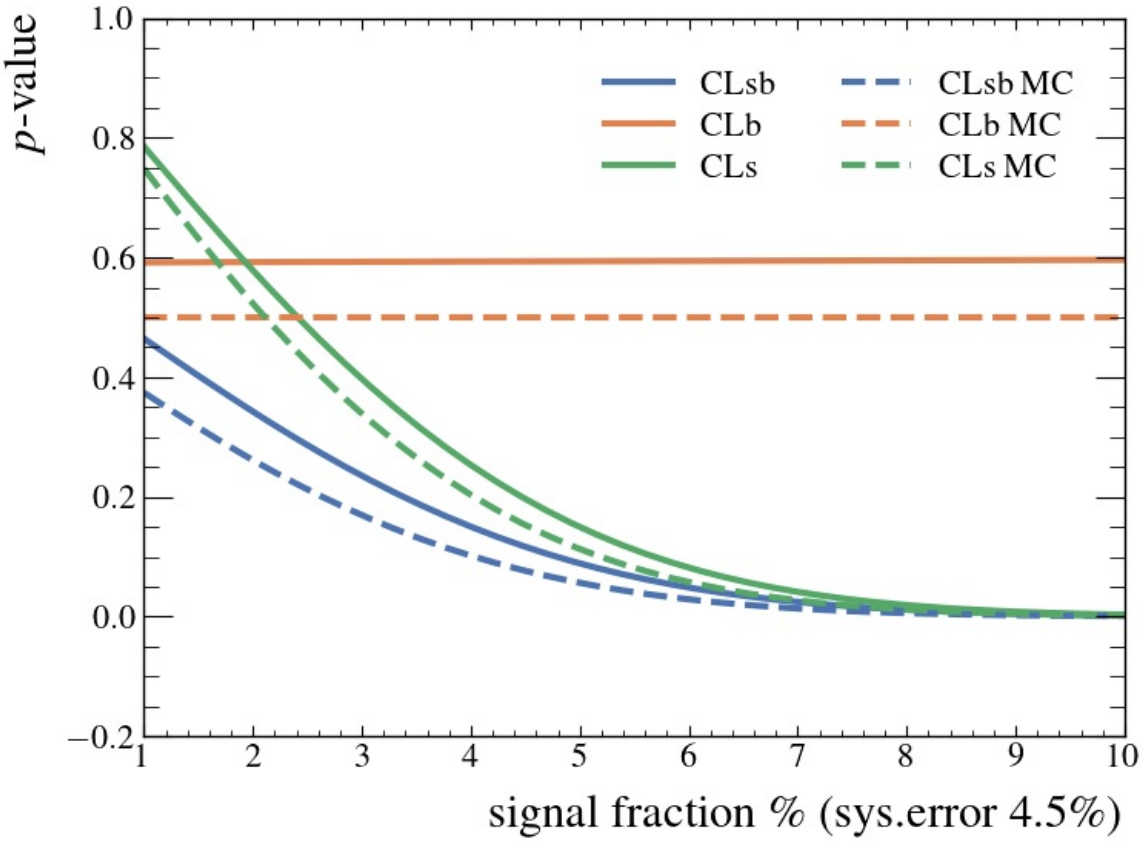

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 3.3%)

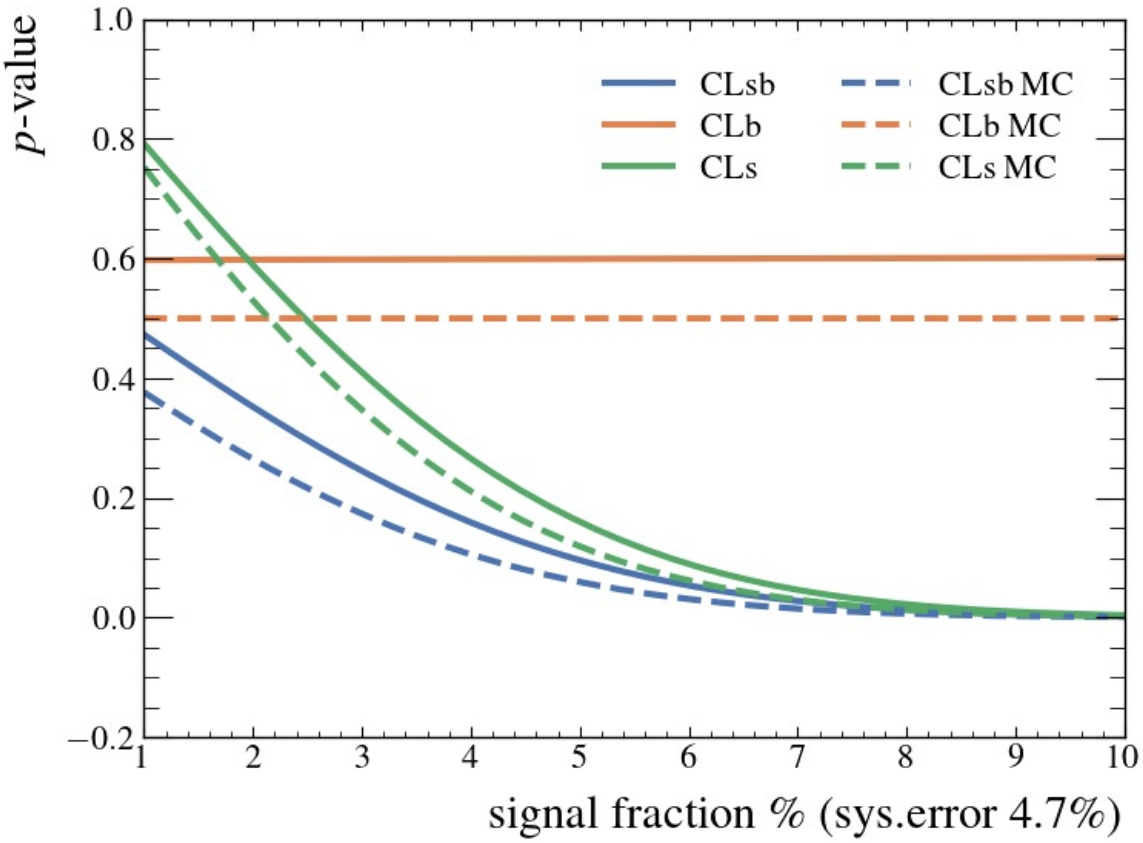

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 3.5%)

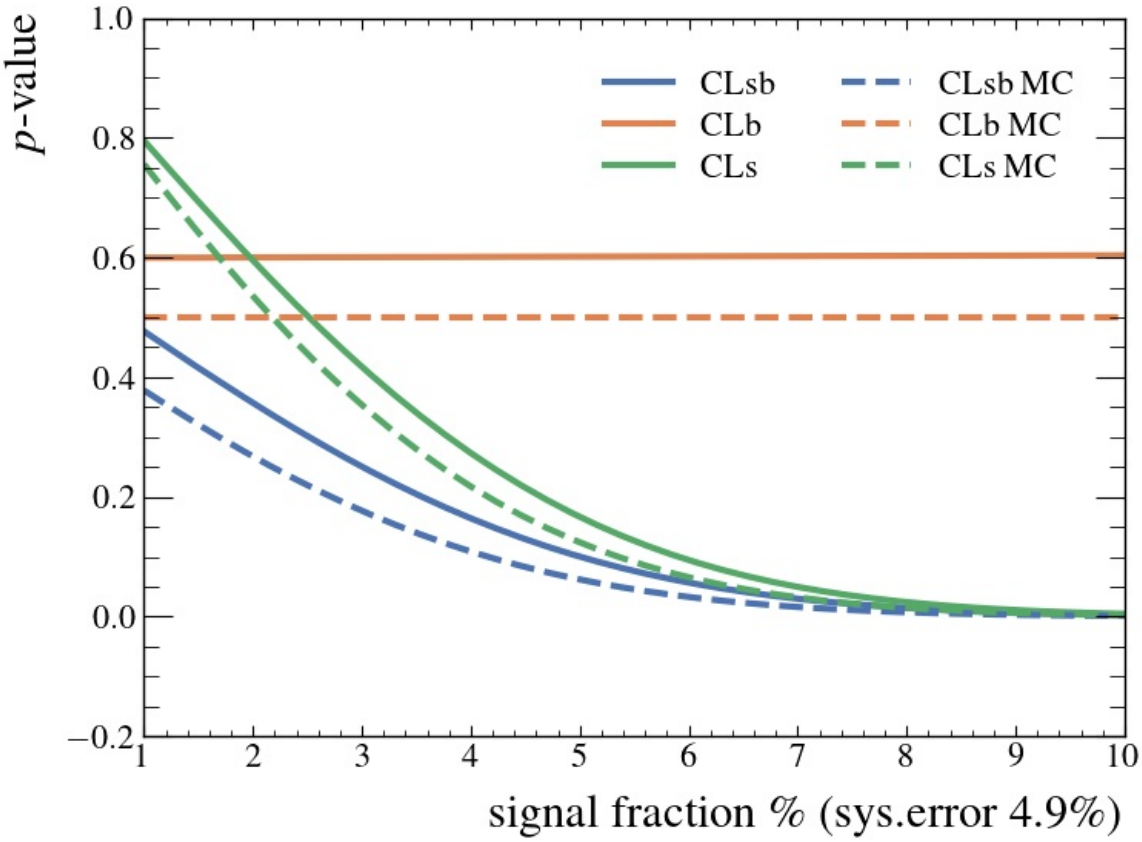

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 3.8%)

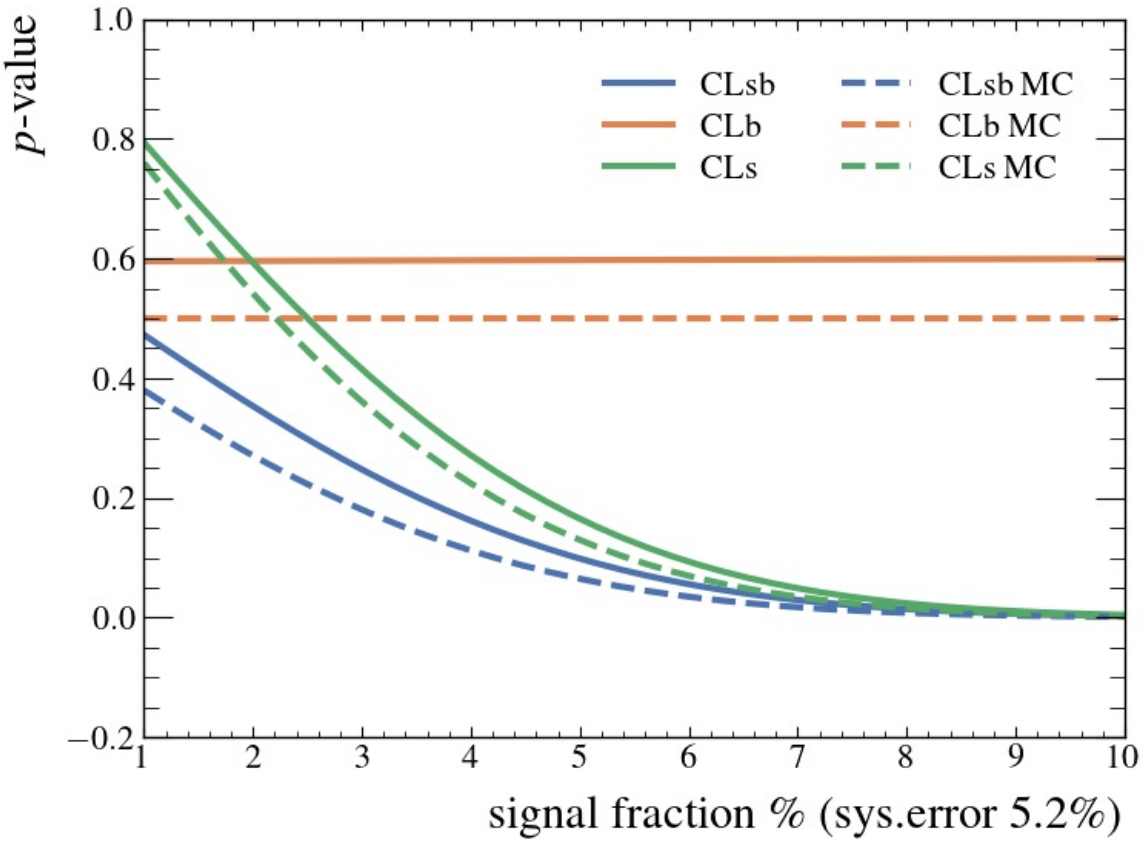

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 4.0%)

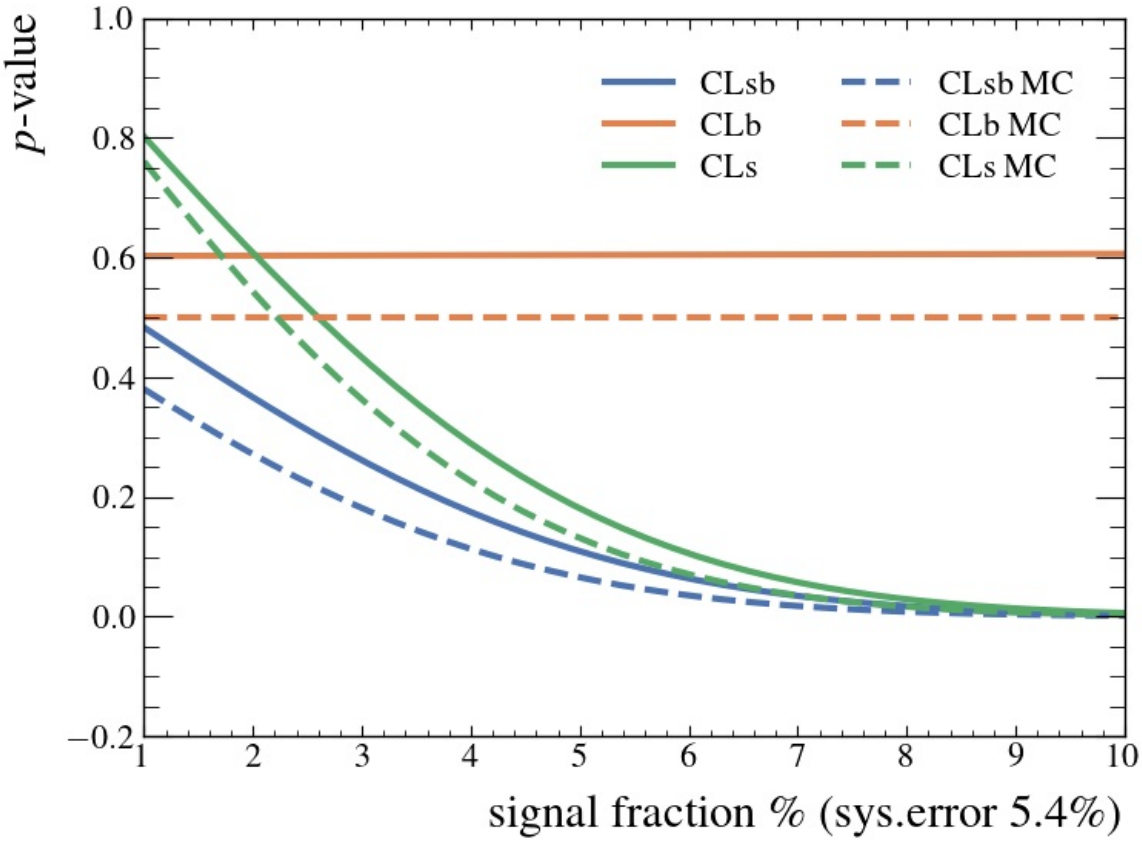

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 4.2%)

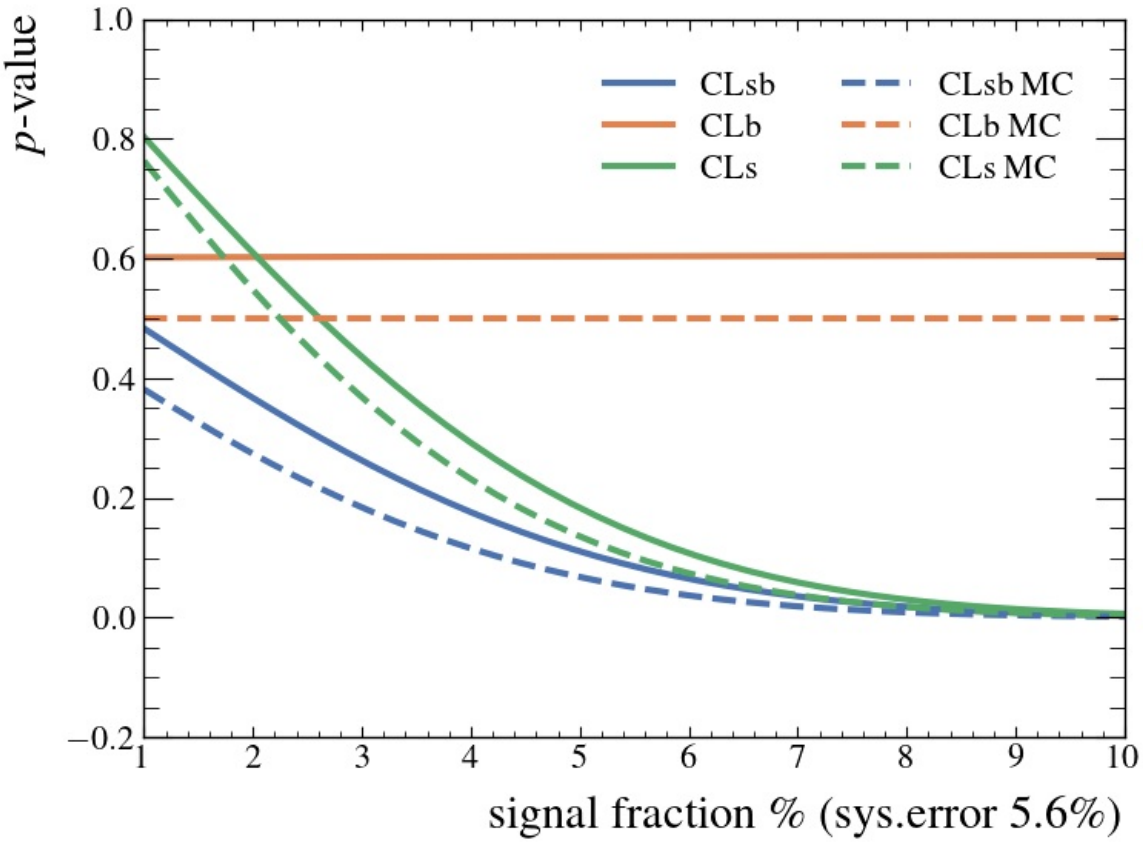

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 4.5%)

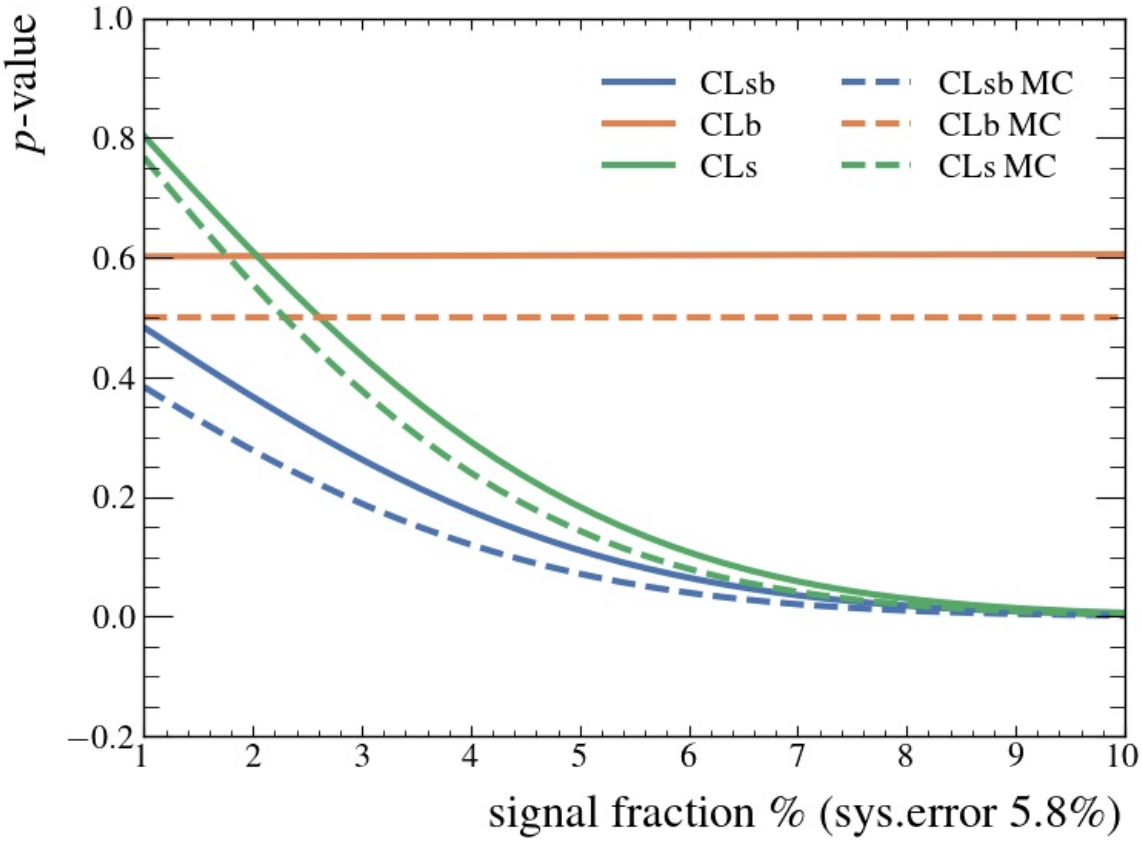

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 4.7%)

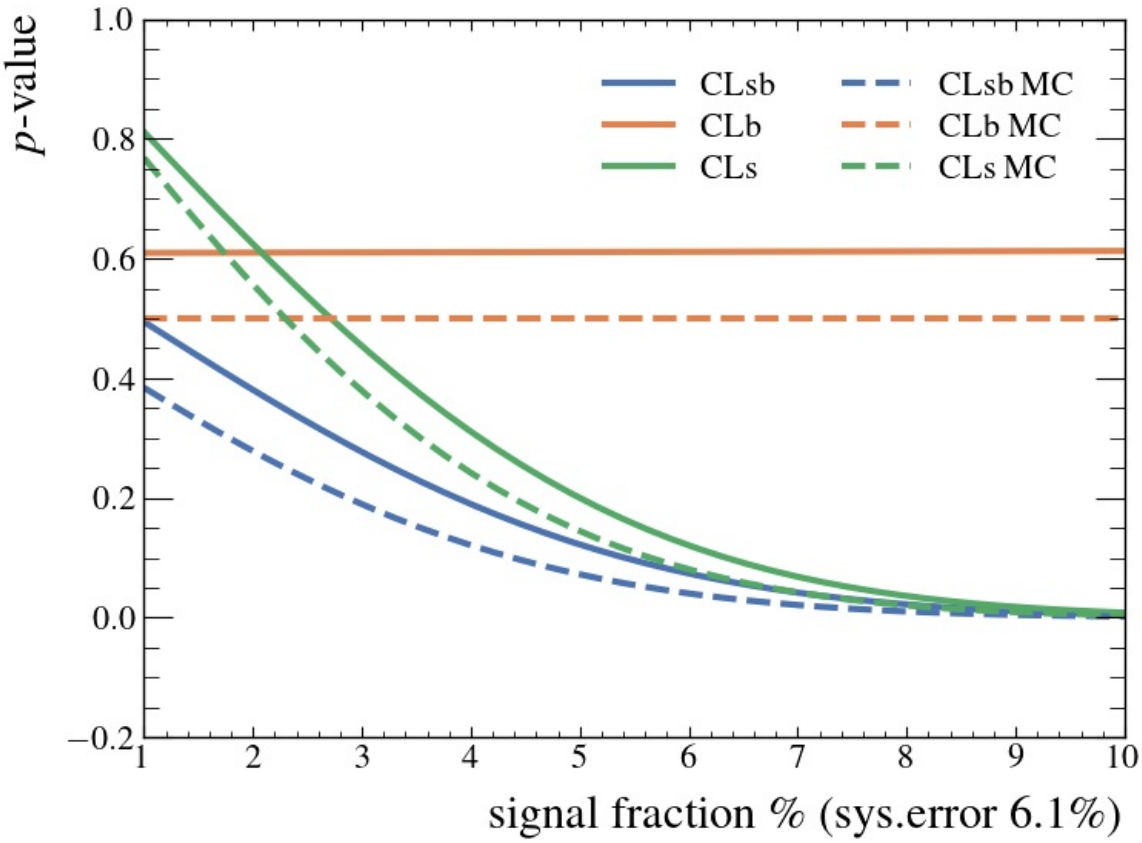

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 4.9%)

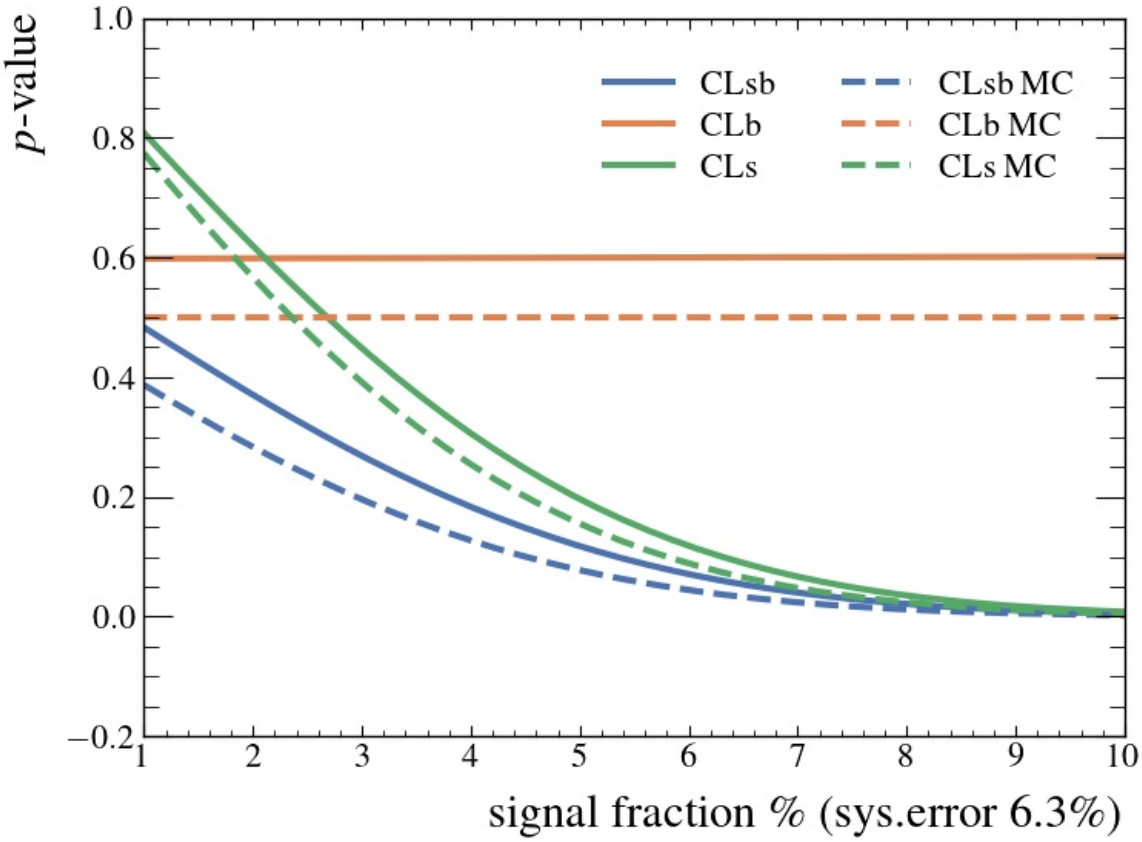

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 5.2%)

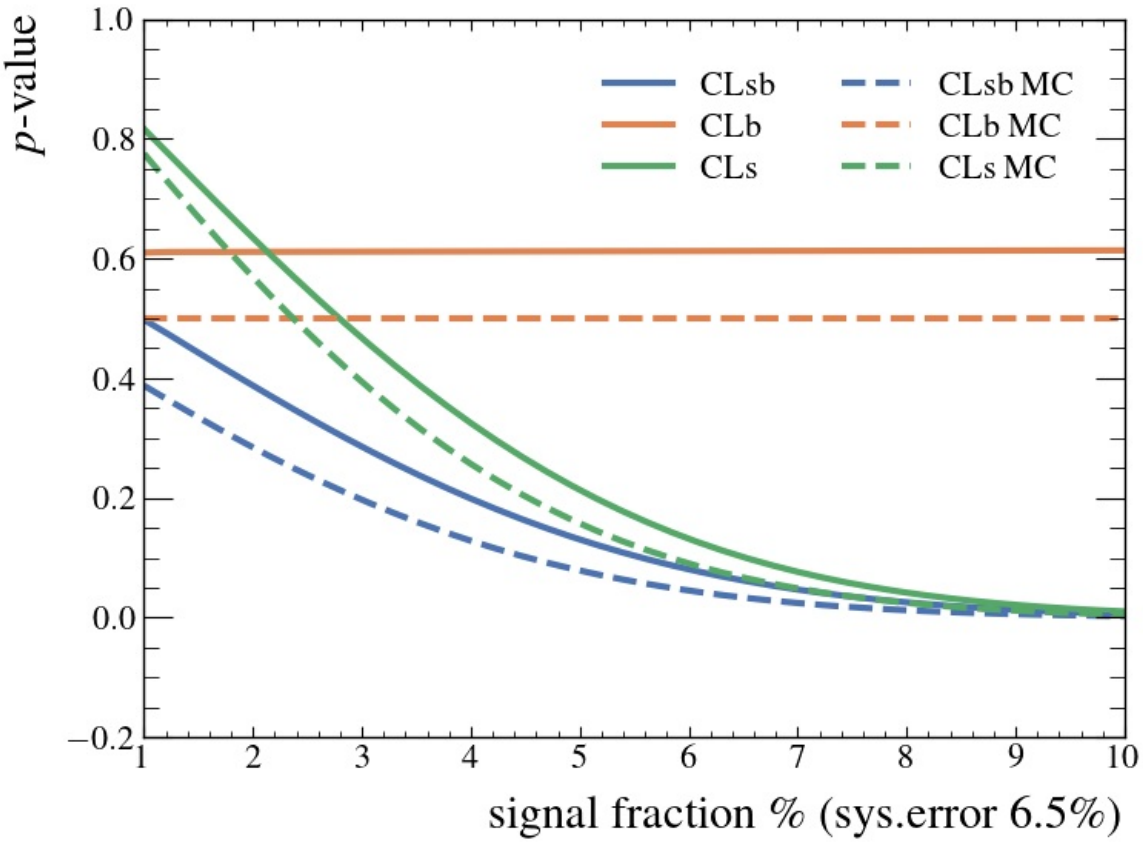

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 5.4%)

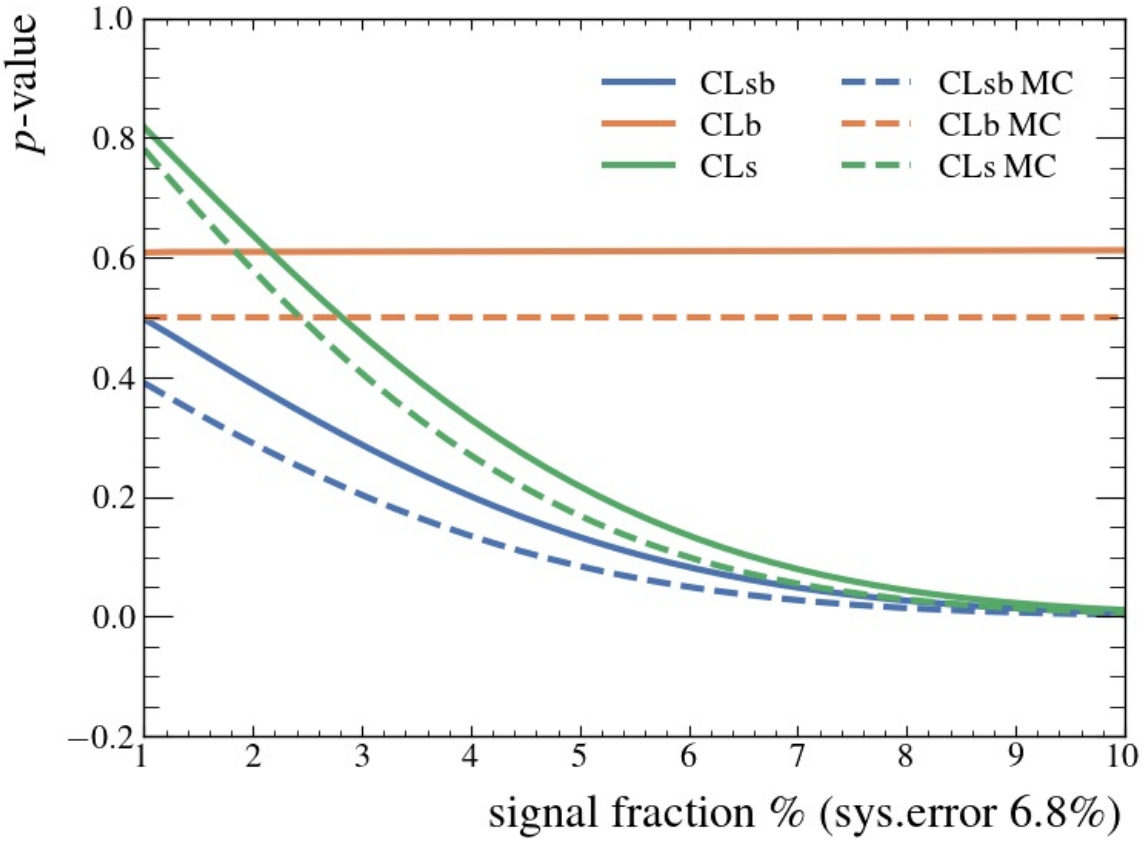

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 5.6%)

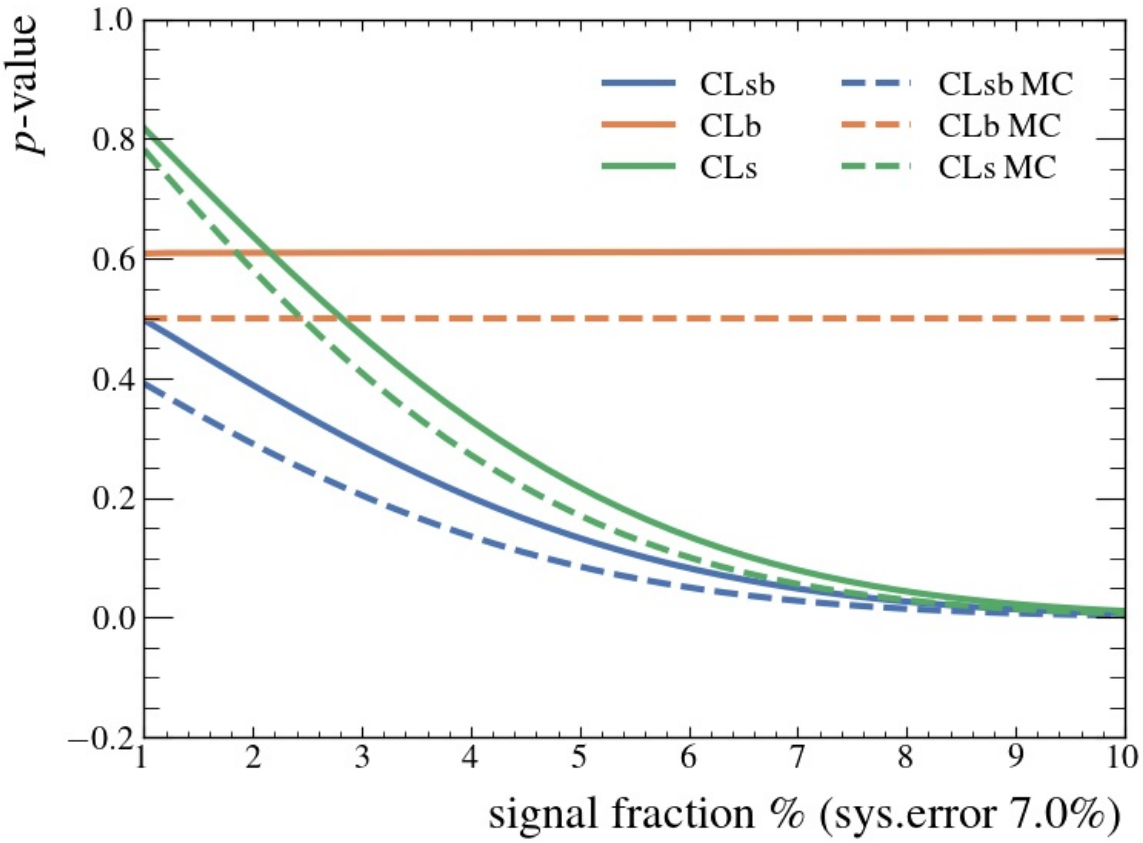

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 5.8%)

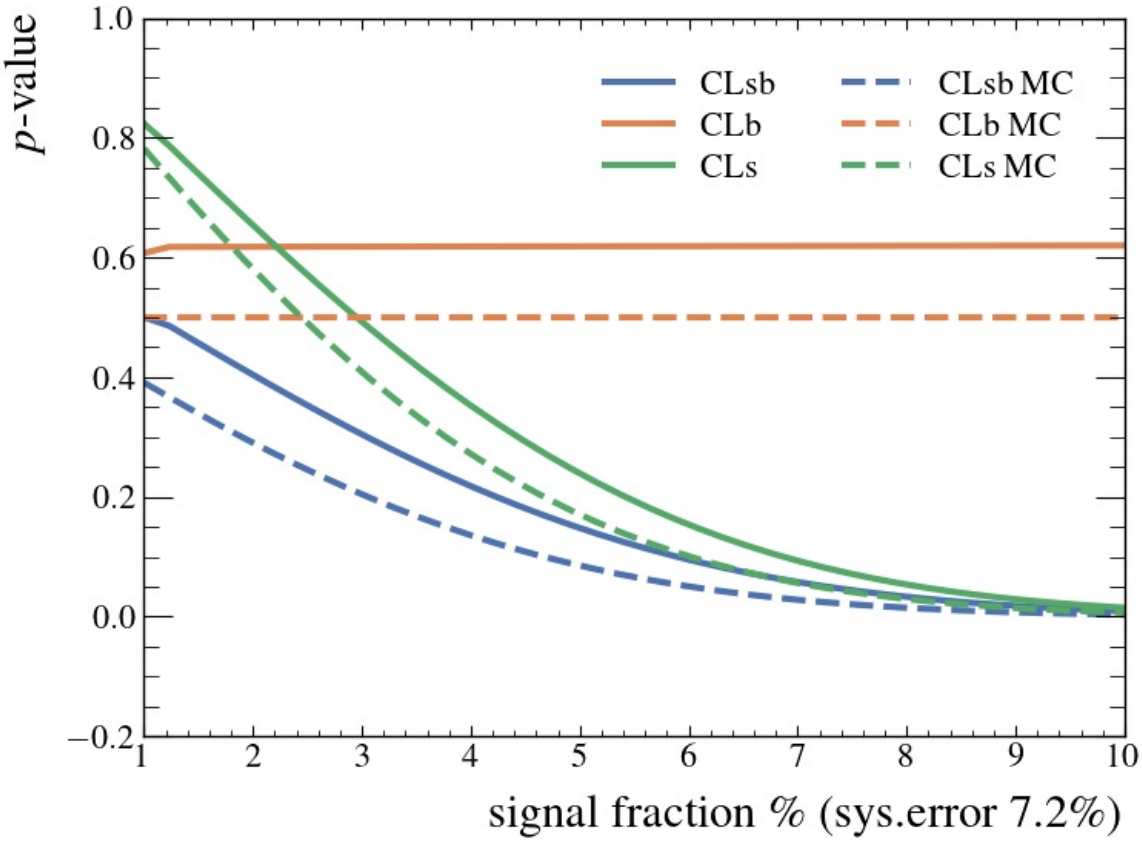

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 6.1%)

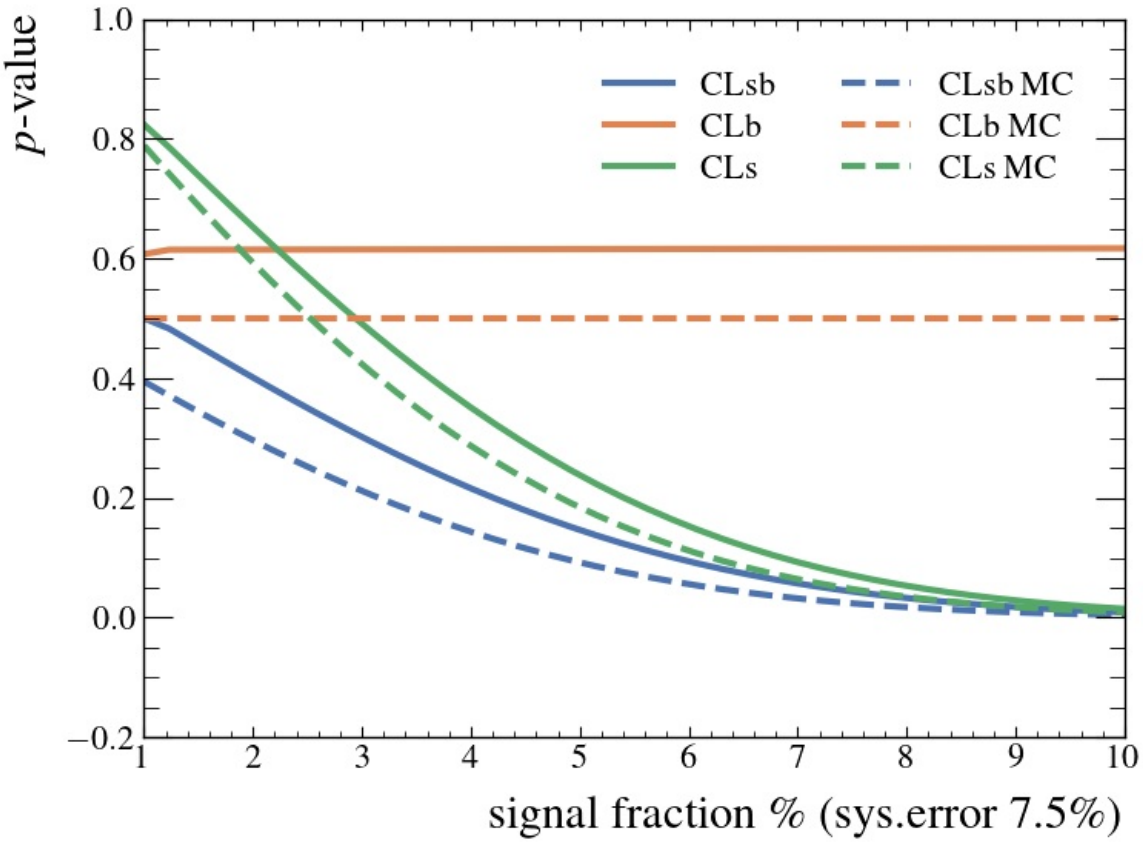

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 6.3%)

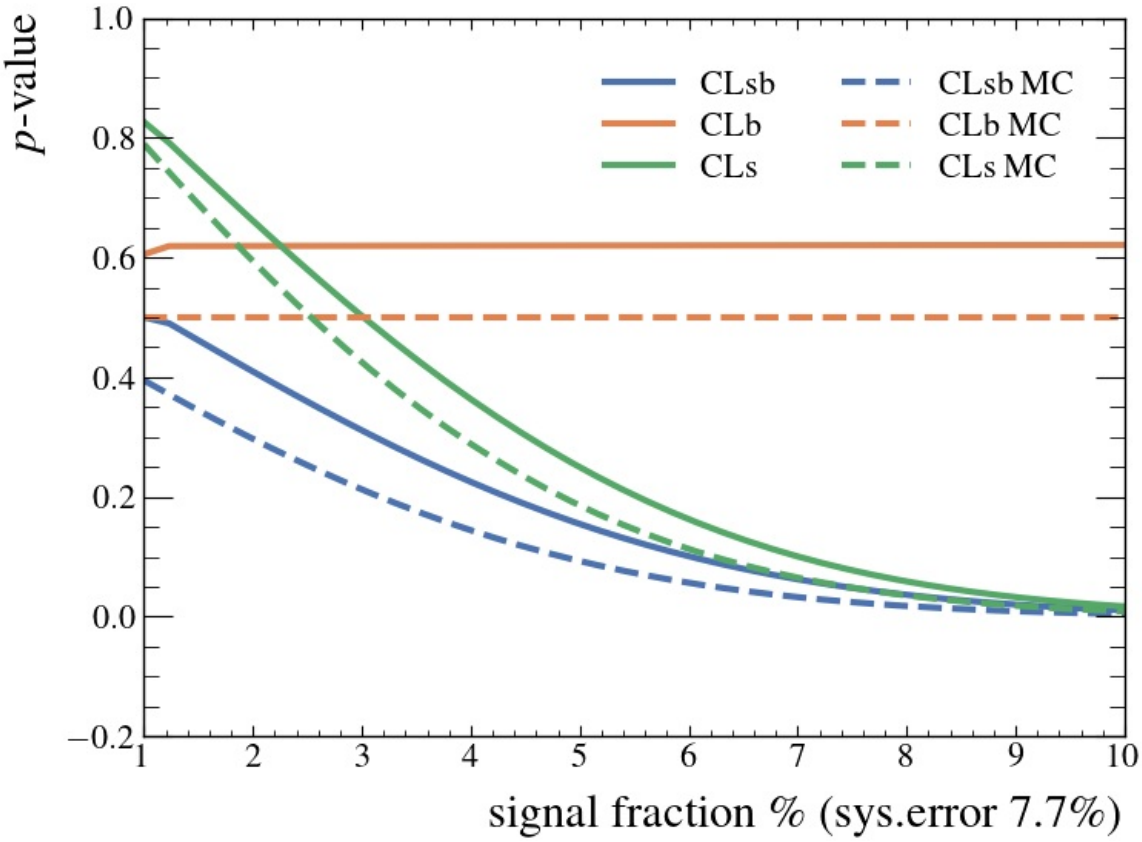

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 6.5%)

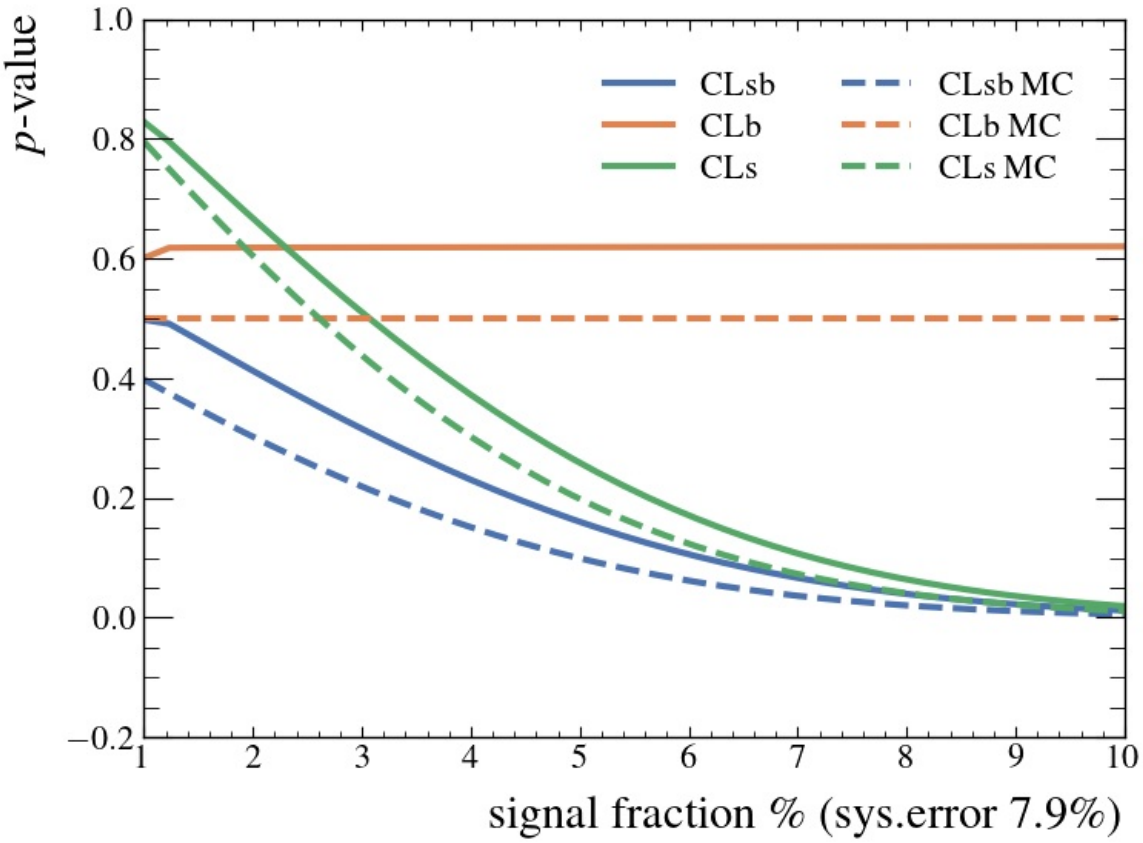

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 6.8%)

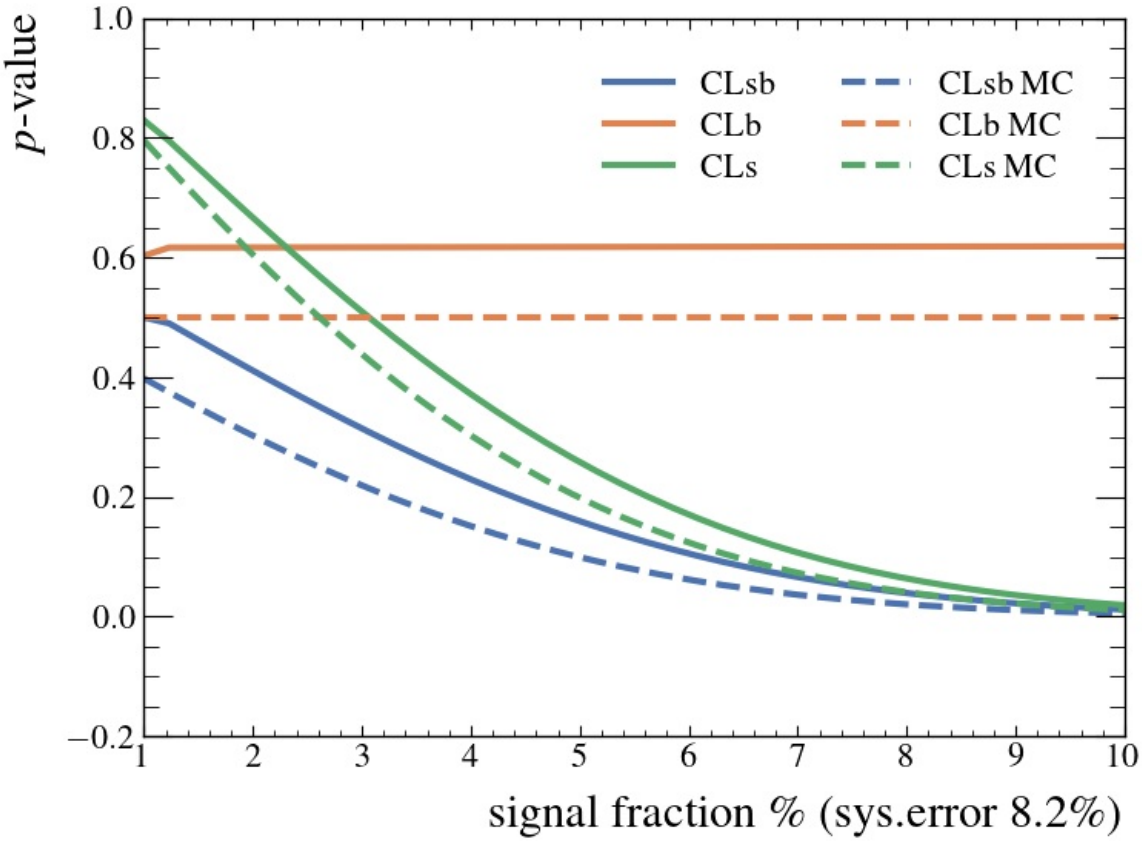

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 7.0%)

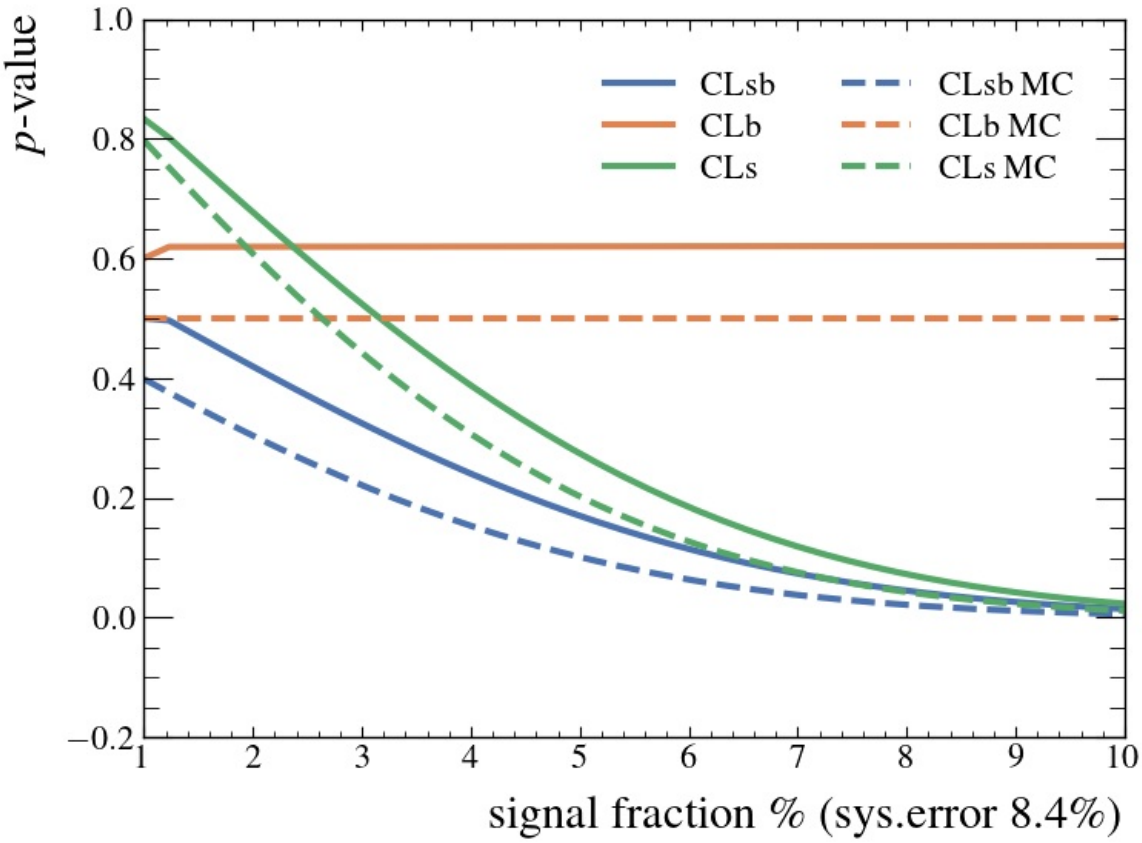

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 7.2%)

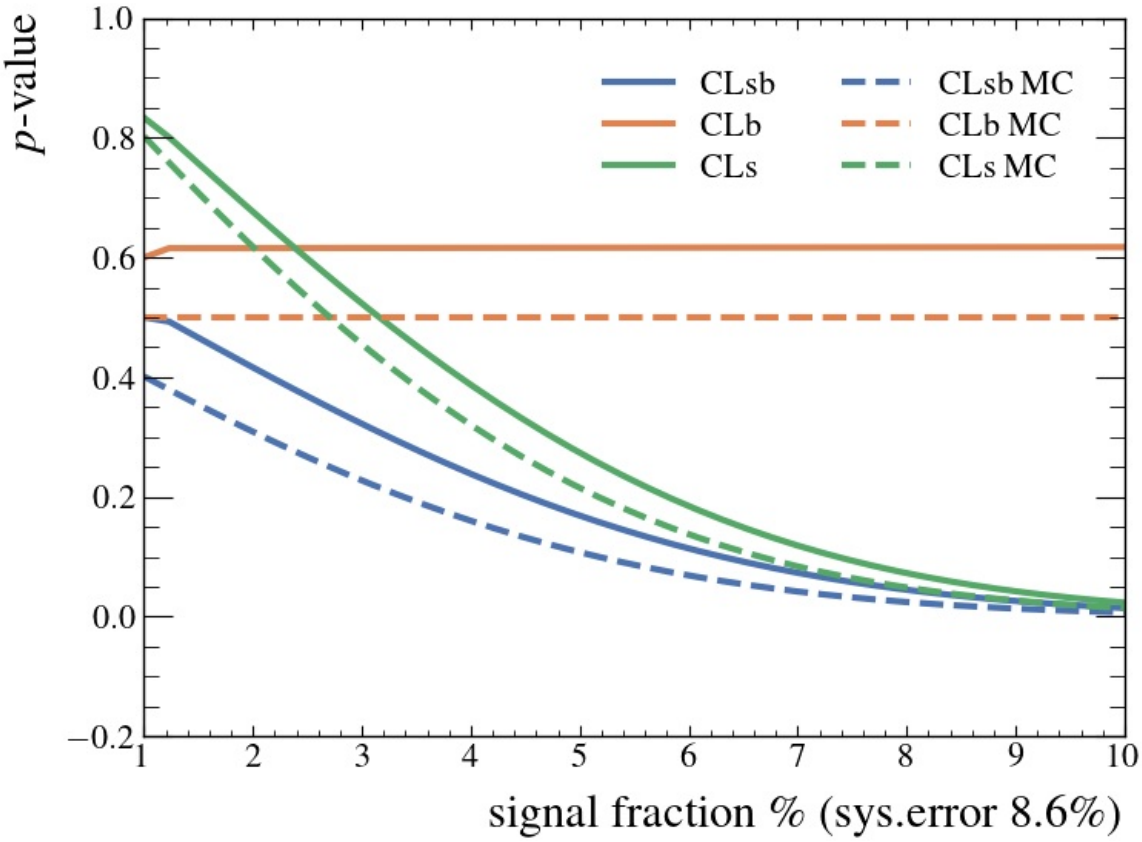

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 7.5%)

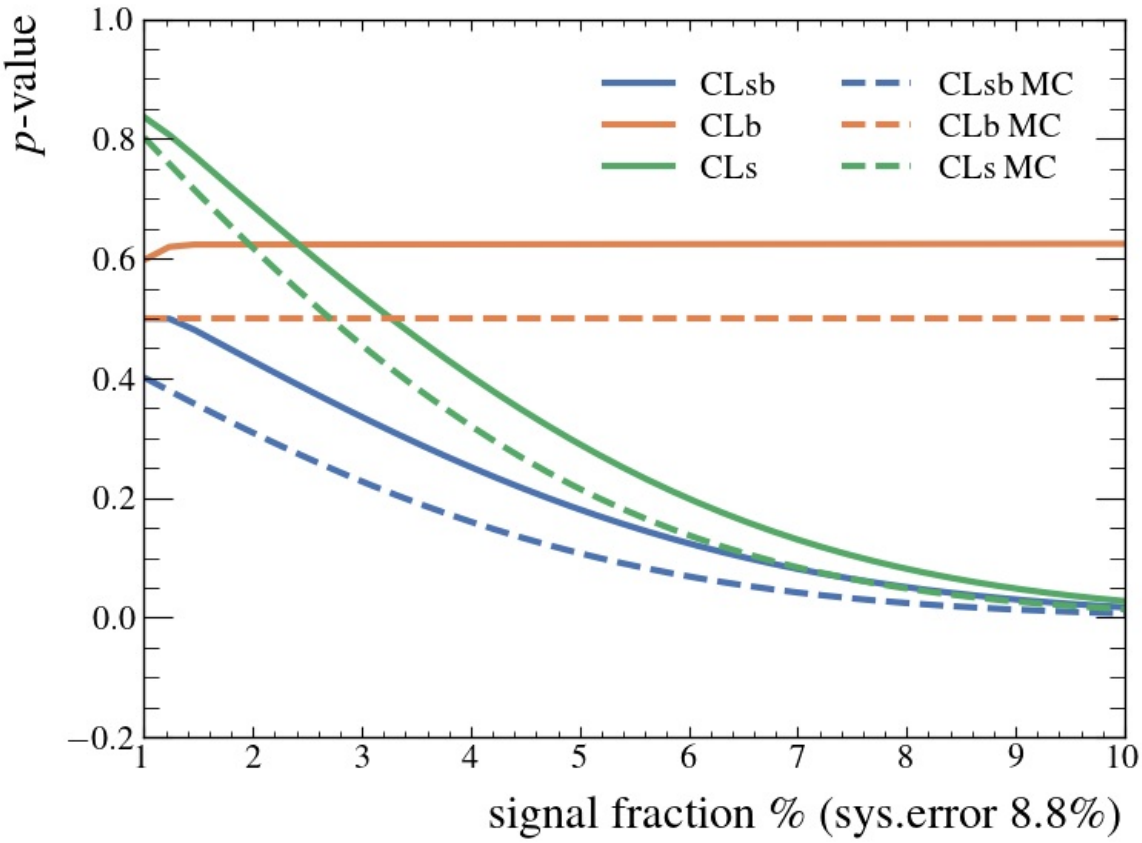

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 7.7%)

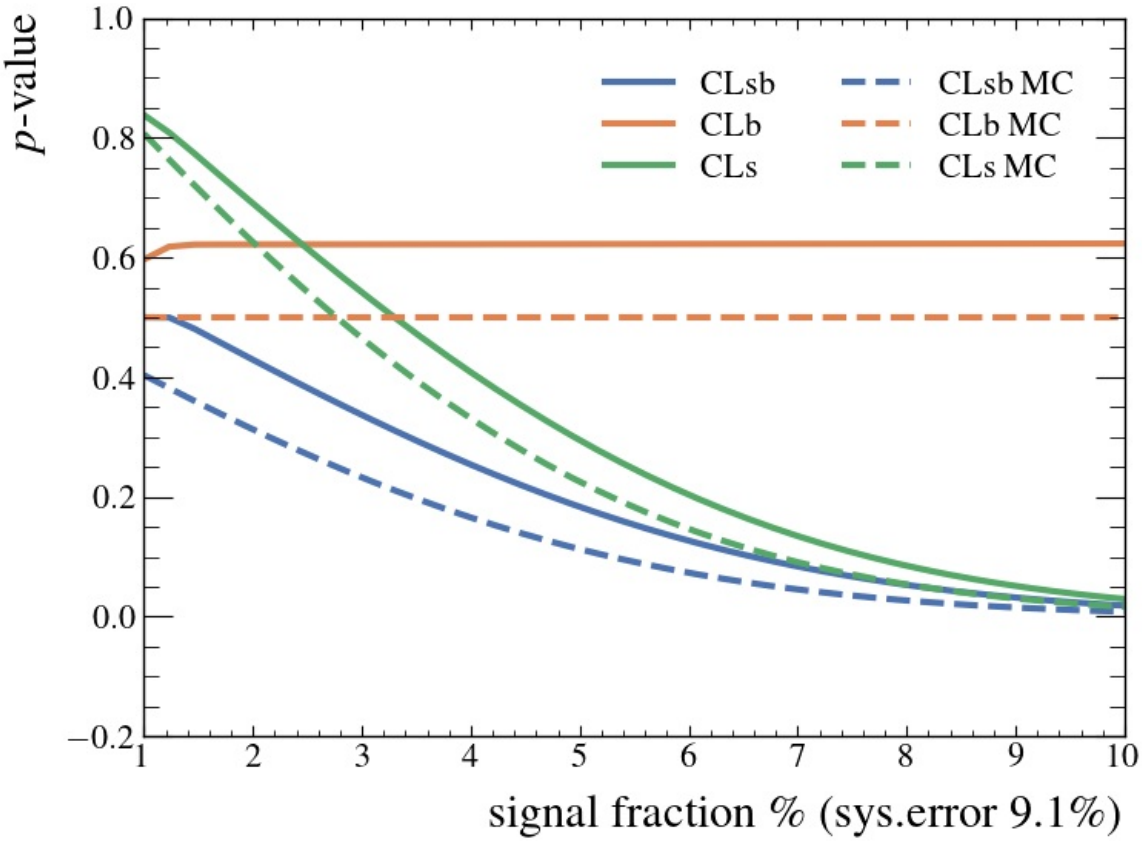

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 7.9%)

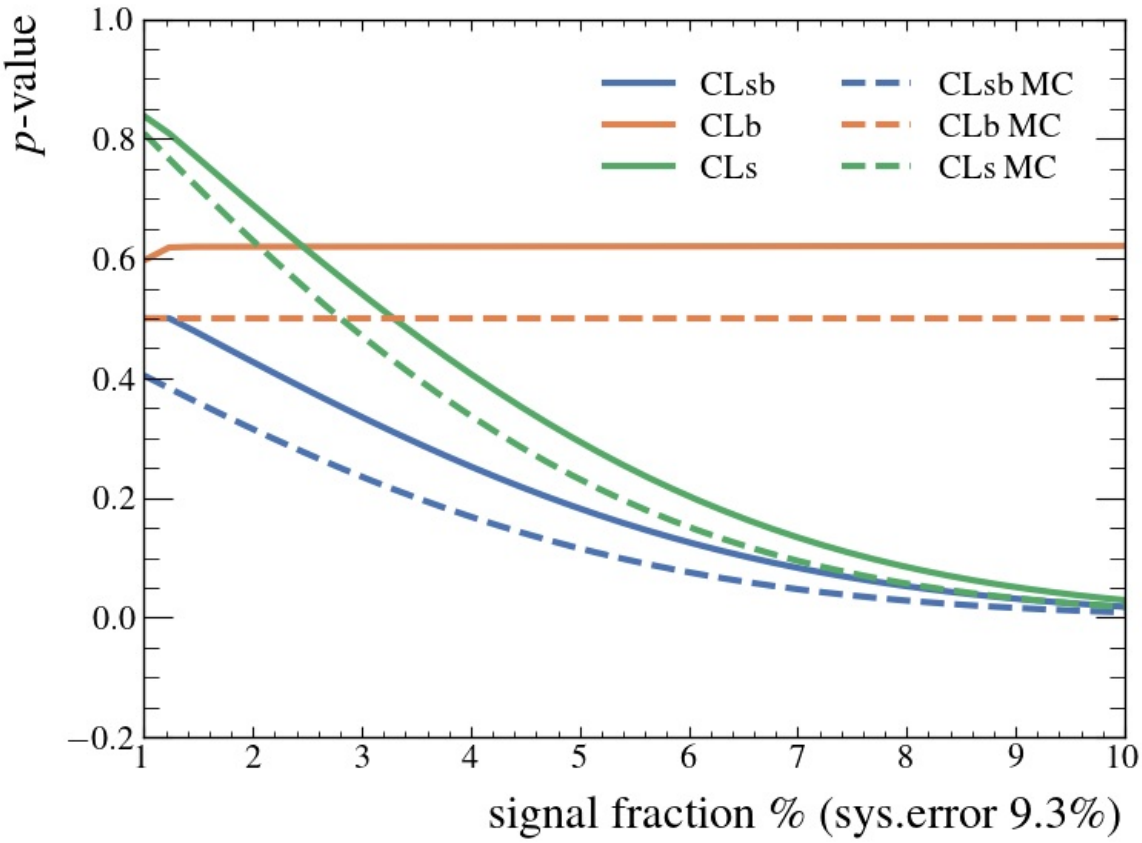

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 8.2%)

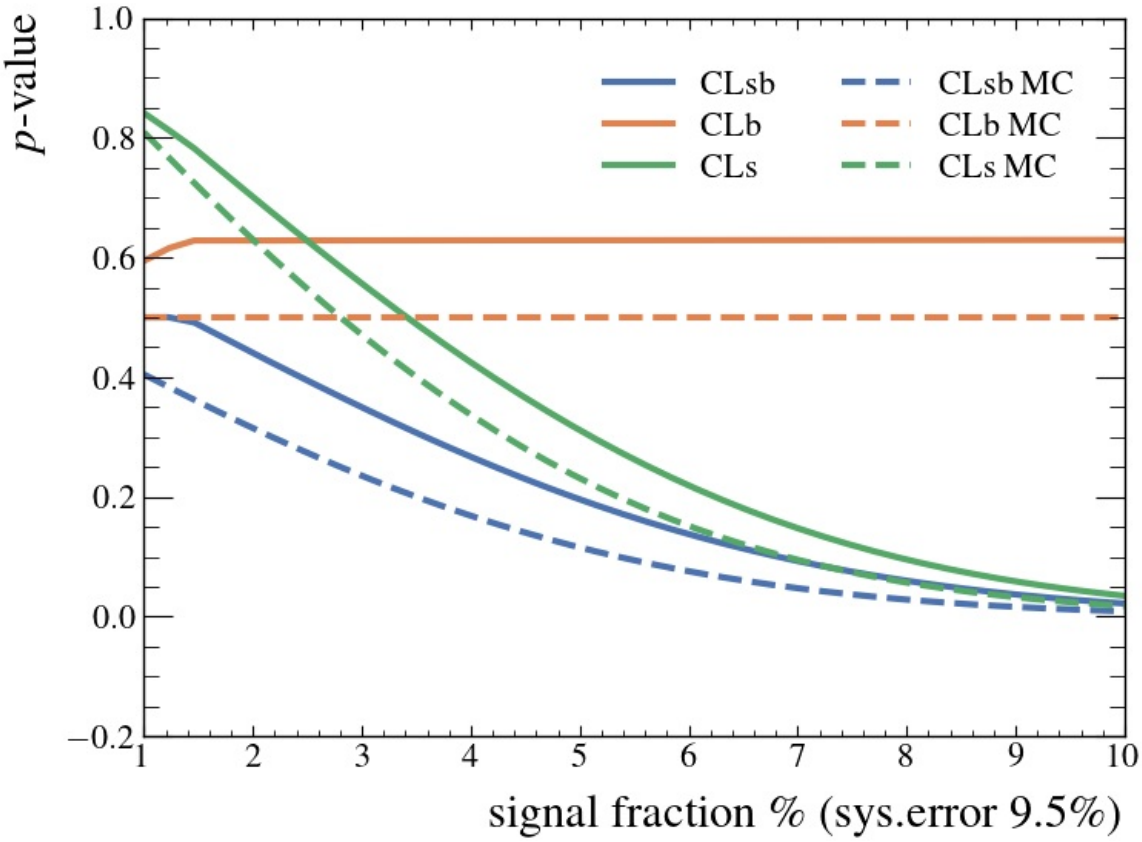

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 8.4%)

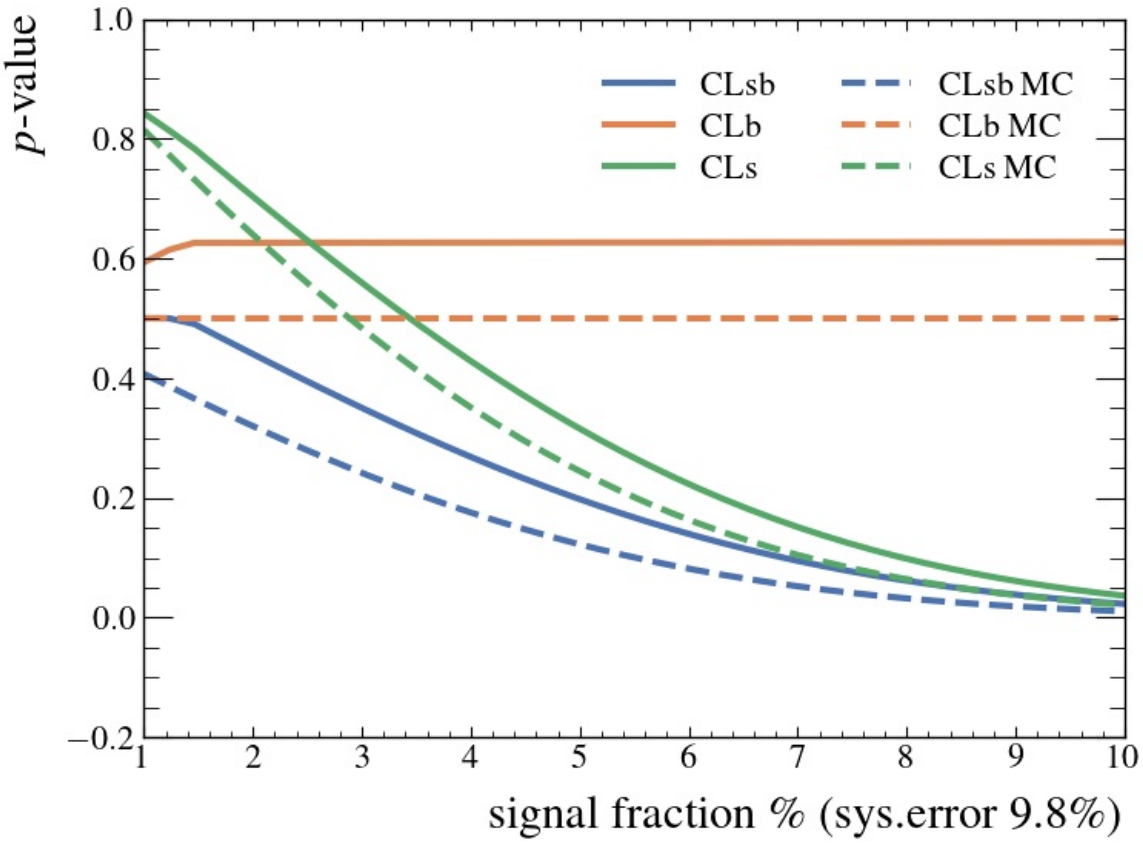

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 8.6%)

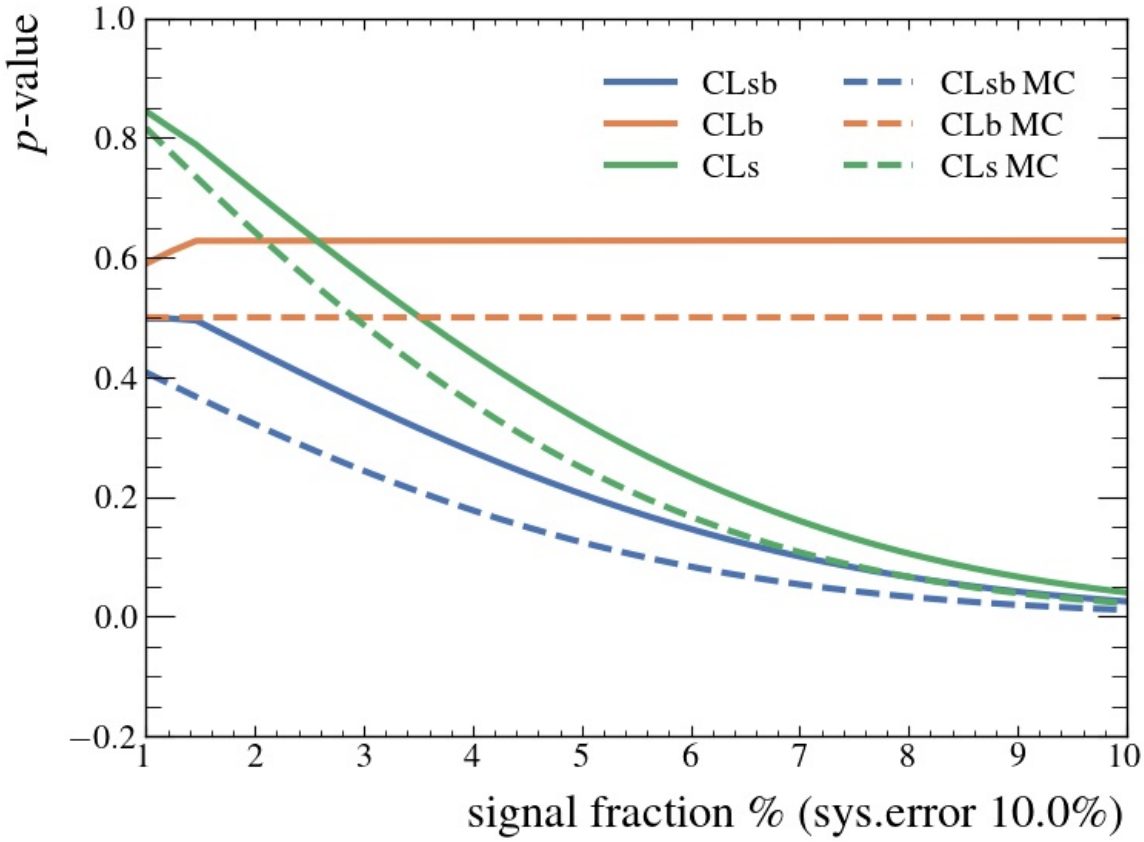

p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 8.8%)


p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 9.1%)


p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 9.3%)


p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 9.5%)


p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 9.8%)


p-value
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
1
2
3
4
5
6
7
8
9
10
CLsb
CLb
CLs
CLsb MC
CLb MC
CLs MC
signal fraction % (sys.error 10.0%)

In [ ]:

In [ ]: