



Introdução à análise de dados em FAE e tecnologias associadas

Divisão dos grupos

Processos de estudo:	Amostras	Link	Dados/MC
ZZ -> 2mu2e			
Grupo 1	Simulated dataset ZZ_TuneCP5_13TeV-pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75593	MC
	Simulated dataset ZZTo4L_TuneCP5_13TeV_powheg_pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75589	MC
	DoubleMuon primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30522	Dados
	MuonEG primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30528	Dados
ZZ->4mu			
Grupo 2	Simulated dataset ZZTo4L_TuneCP5_13TeV_powheg_pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75589	MC
	DoubleMuon primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30522	Dados
ZZ->4e			
Grupo 3	Simulated dataset ZZTo4L_TuneCP5_13TeV_powheg_pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75589	MC
	DoubleEG primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30521	Dados
ZZ->2q2l			
Grupo 4	Simulated dataset ZZTo2Q2L_mllmin4p0_TuneCP5_13TeV-amcatnloFXFX-pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75573	MC
	Simulated dataset ZZ_TuneCP5_13TeV-pythia8 in NANOADSIM format for 2016 collision data	https://opendata.cern.ch/record/75593	MC
	DoubleMuon primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30522	Dados
Z->mumu			
Grupo 5	DYJetsToLL_M-50_TuneCP5_13TeV-amcatnloFXFX-pythia8	https://opendata.cern.ch/record/35669	MC
	DoubleMuon primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30522	Dados
Z->ee			
Grupo 6	DYJetsToLL_M-50_TuneCP5_13TeV-amcatnloFXFX-pythia8	https://opendata.cern.ch/record/35669	MC
	DoubleEG primary dataset in NANOAD format from RunG of 2016	https://opendata.cern.ch/record/30521	Dados

[Link para a planilha](#)

Onde encontrar os dados

- Pelo jupyterhub:
 - `jupyterhub.hepgrid.uerj.br`
- Caminho:
 - `/opendata/eos/opendata/cms/`

```
mthiel@2fe031d7566b:/opendata/eos/opendata/cms$ ls
Run2016G  mc
mthiel@2fe031d7566b:/opendata/eos/opendata/cms$ ls Run2016G/
DoubleEG  DoubleMuon  MuonEG
mthiel@2fe031d7566b:/opendata/eos/opendata/cms$ ls mc/RunIISummer20UL16NanoAODv9/
DYJetsToLL_M-50_TuneCP5_13TeV-amcatnloFXFX-pythia8  ZZTo2Q2L_mllmin4p0_TuneCP5_13TeV-amcatnloFXFX-pythia8  ZZTo4L_TuneCP5_13TeV_powheg_pythia8  ZZ_TuneCP5_13TeV-pythia8
mthiel@2fe031d7566b:/opendata/eos/opendata/cms$
```

- Iremos usar o formato de dados NANO AOD do CMS