TTBAR COMPOSITION

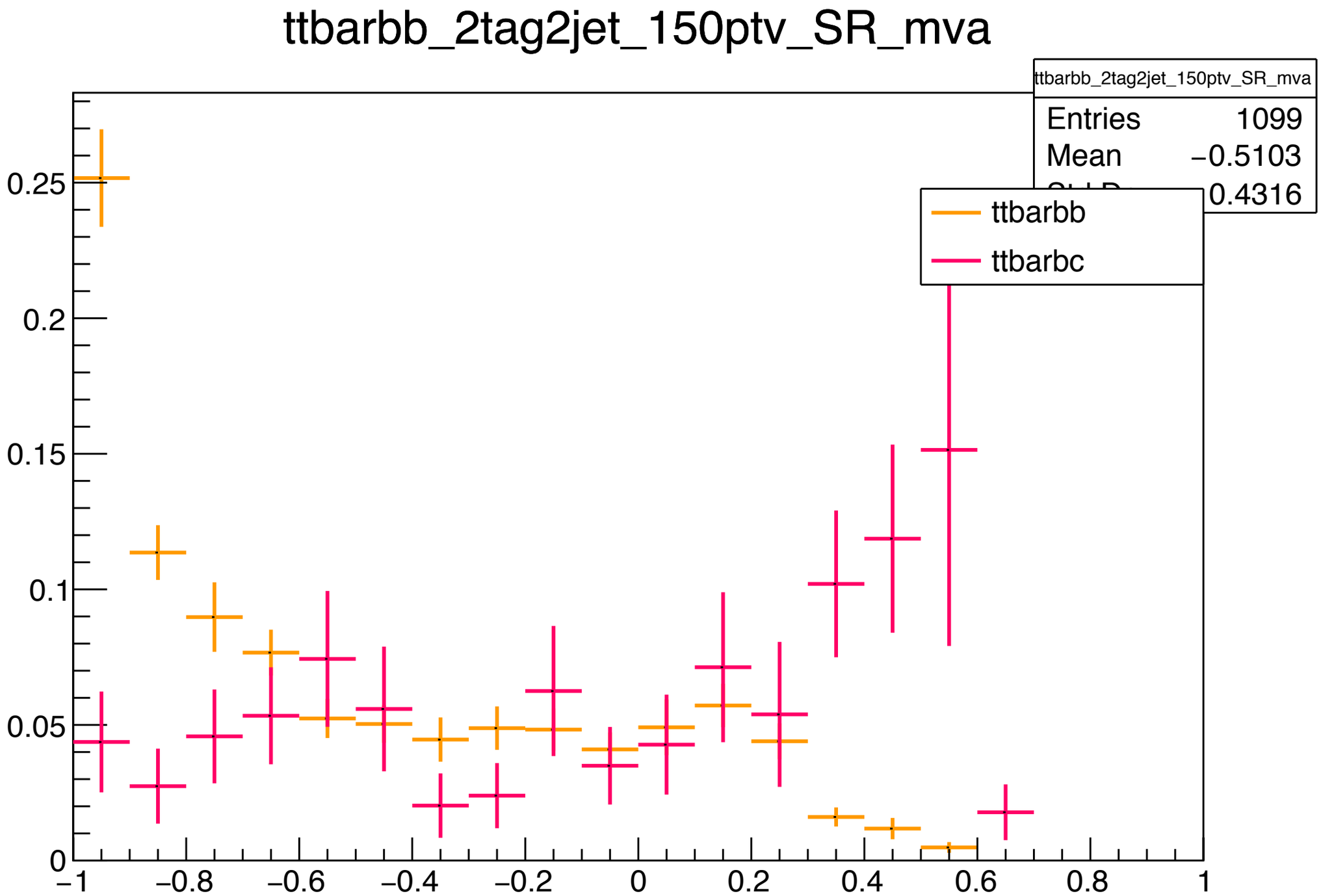
PURPOSE

- Study the ttbar composition with the VH(bb) 0 lepton signal region
- Split ttbar sample in flavour of the 2 leading jets
  - bb, bc, bl, cc, cl
- Look for rejection @80% signal efficiency
- Look MVA distributions

2TAG2JET

Sample	Integral	Integral(80%)	Ratio 80/100
ttbarbb	375,97	39,50	0,11
ttbarbc	55,84	28,10	0,50
ttbarbl	15,41	5,76	0.373406

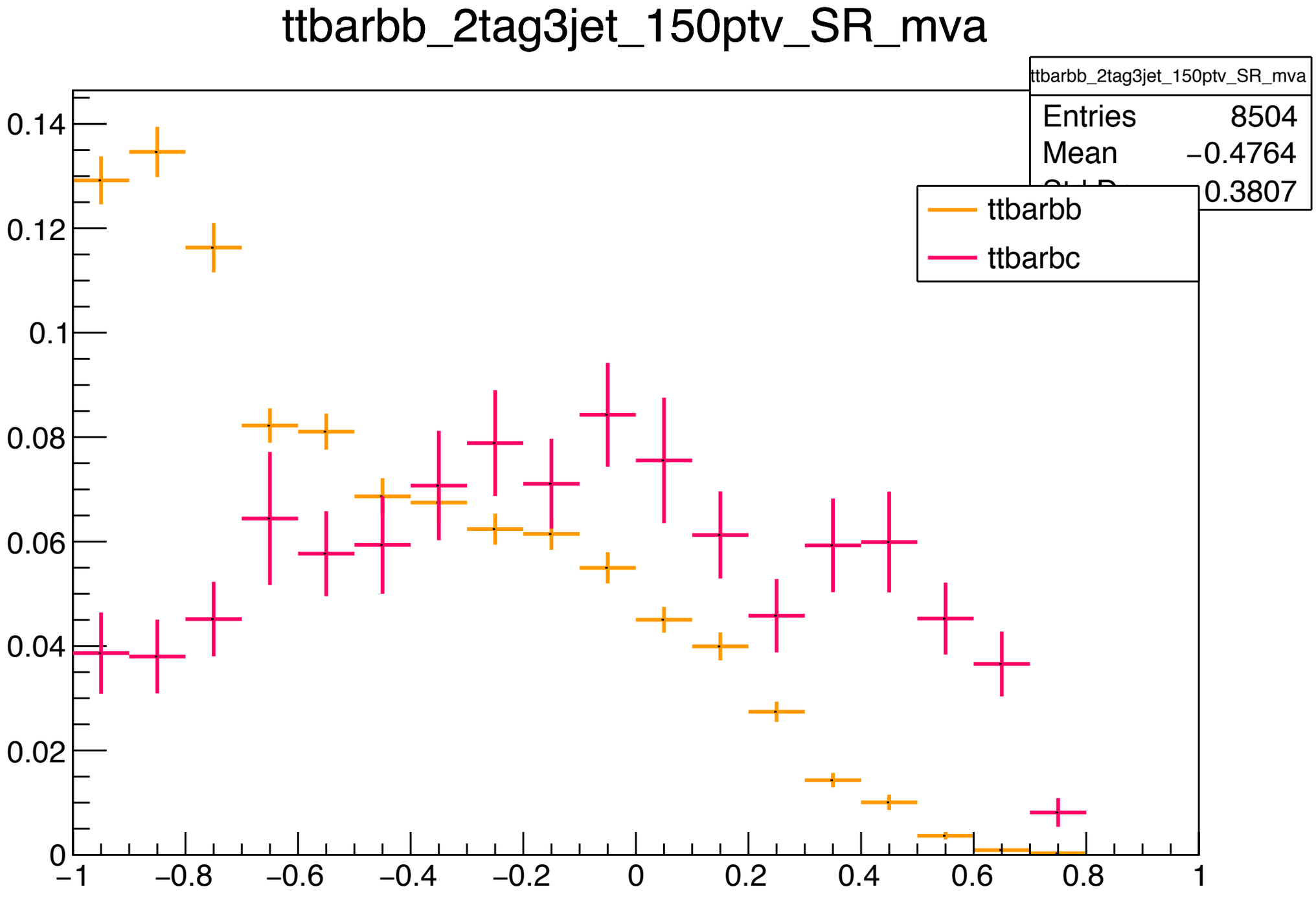
2TAG2JET


ttbarbb_2tag2jet_150ptv_SR_mva
ttbarbb_2tag2jet_150ptv_SR_mva
Entries 1099
Mean −0.5103
0.4316
ttbarbb
ttbarbc
0.25
0.2
0.15
0.1
0.05
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

2TAG3JET

Sample	Integral	Integral(80%)	Ratio 80/100
ttbarbb	2965,94	321,05	0,11
ttbarbc	400,91	131,57	0,33
ttbarbl	78,64	23,31	0,30
ttbarcc	1,87	0,88	0,47
ttbarcl	0,97	0,65	0,67

2TAG3JET


ttbarbb_2tag3jet_150ptv_SR_mva
ttbarbb_2tag3jet_150ptv_SR_mva
Entries 8504
Mean −0.4764
0.3807
ttbarbb
ttbarbc
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1