

Work status

2013.12.31

Mva 3 jets category

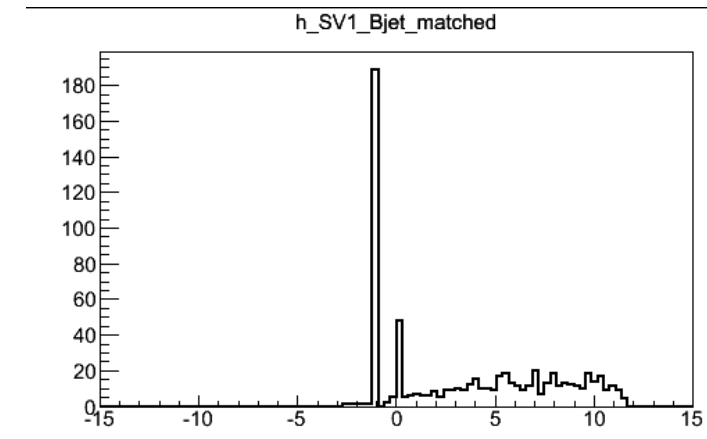
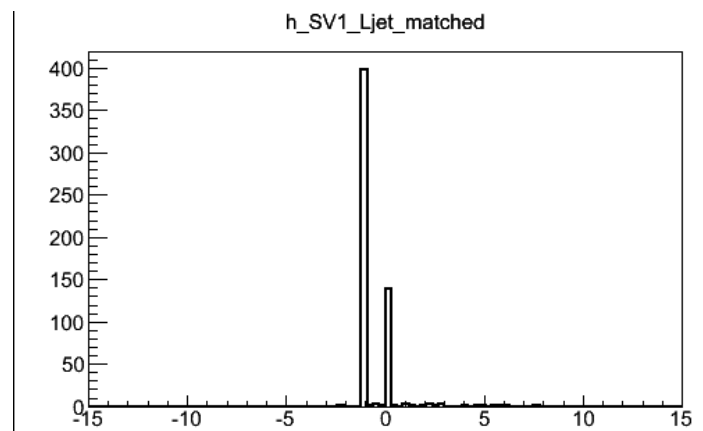
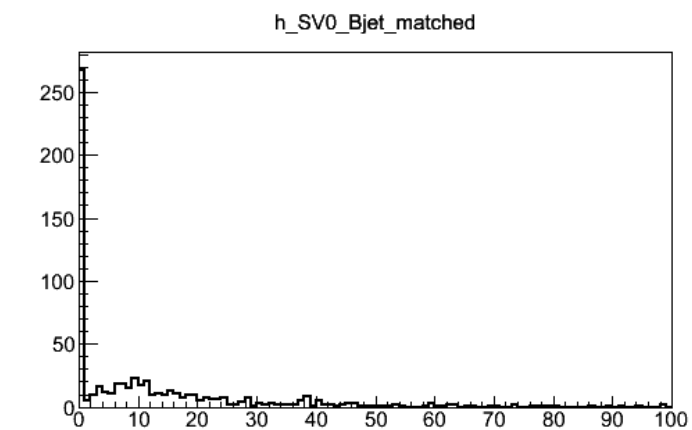
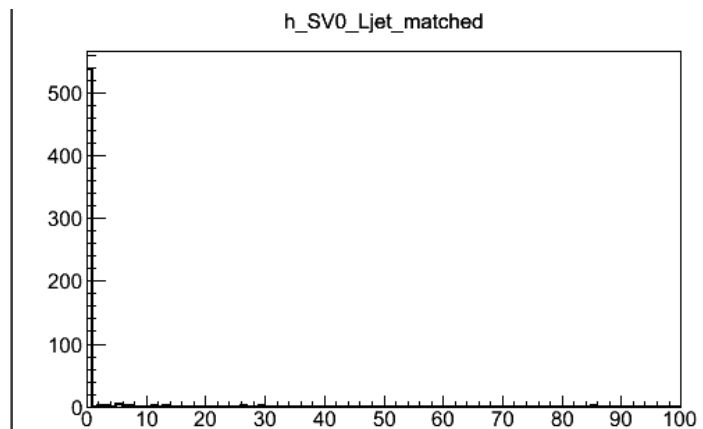
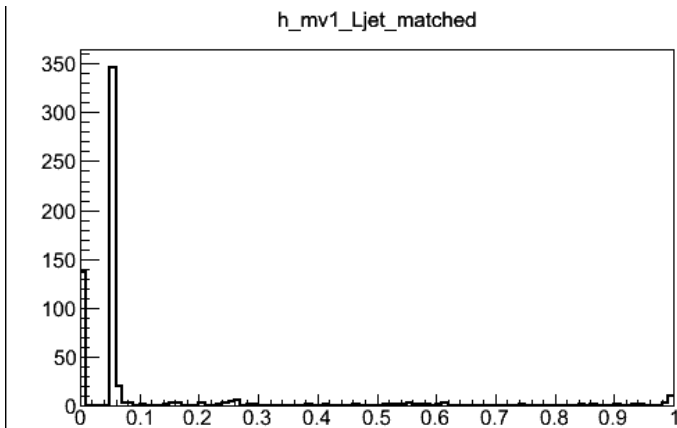
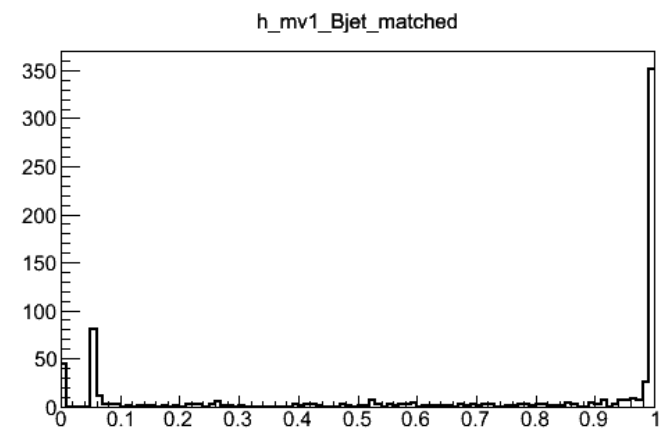
bin	Significance		
2 jets	1.36398		
3 jets	1.09471		
combined	1.74		

This result only considers the first cat.
Compared with the old one : around 1.54

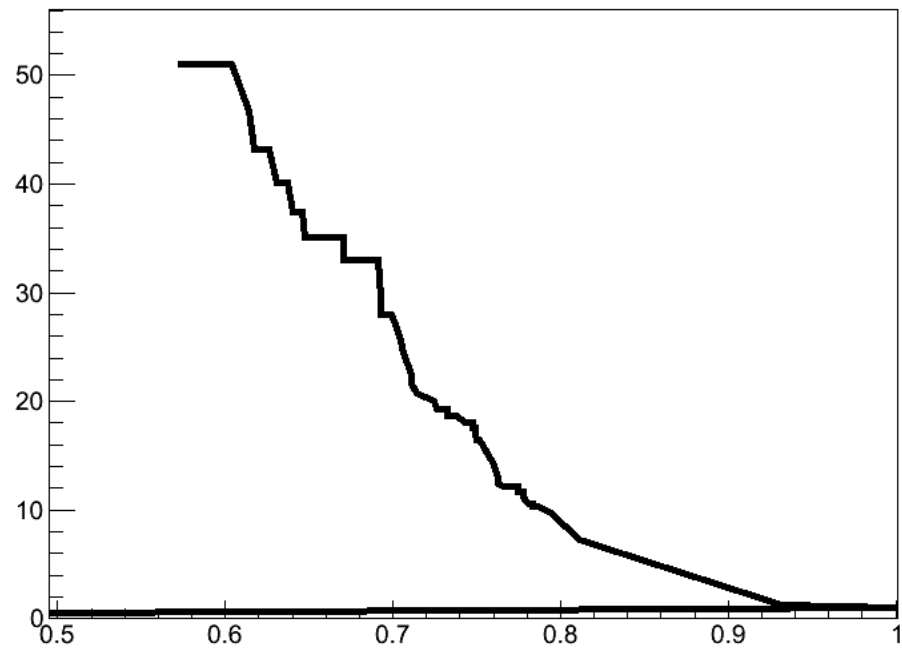
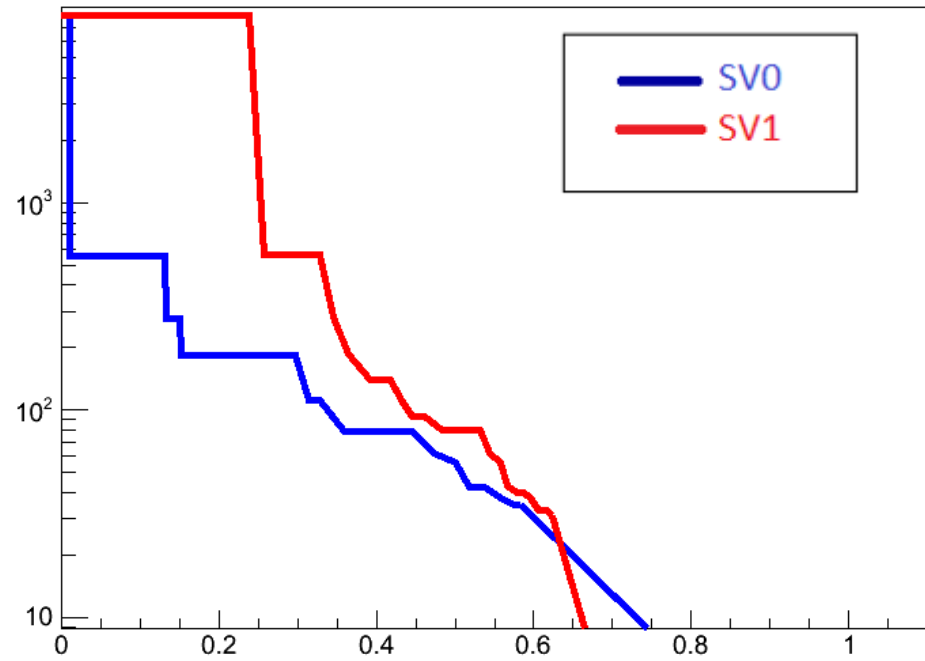
Different B-tagging performance of IBL

Event Selection

- ▶ Jet_pt > 10 GeV
- ▶ Overlap removal: if $\Delta R < 0.2$ with electron remove the jet
- ▶ Match : if $\Delta R < 0.3$ with a B parton match it as a B-jet
if $\Delta R < 0.3$ with a light quark or gluon parton match it as a light-jet



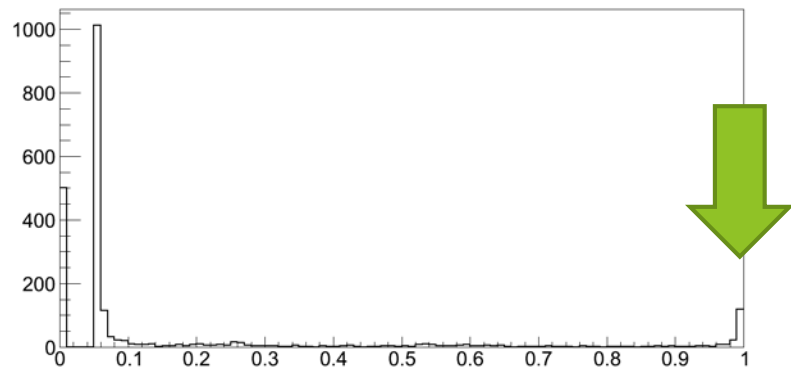
ROC



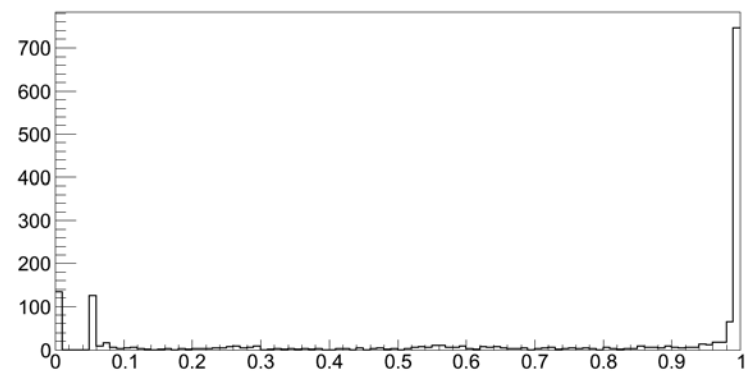
Back up

- ▶ showed on 12.30

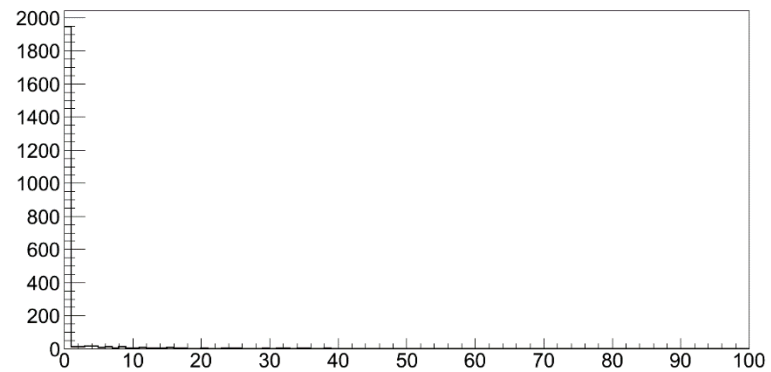
h_mv1_Ljet_matched



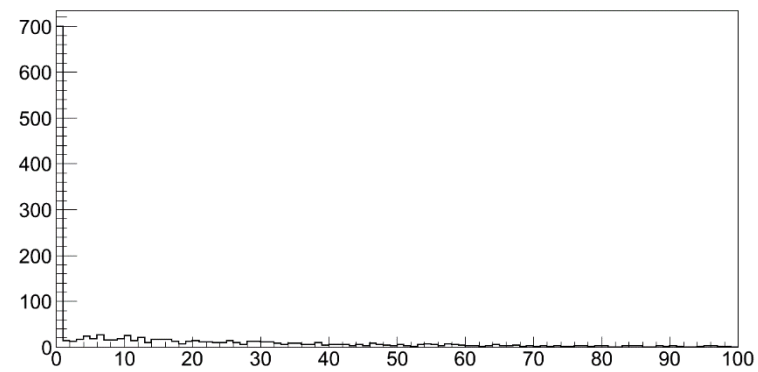
h_mv1_Bjet_matched



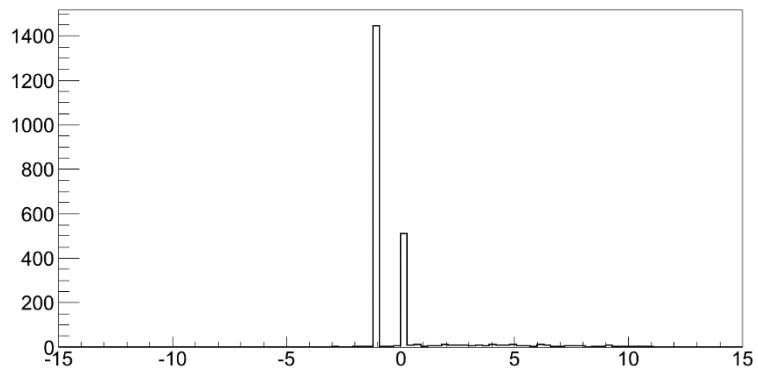
h_SV0_Ljet_matched



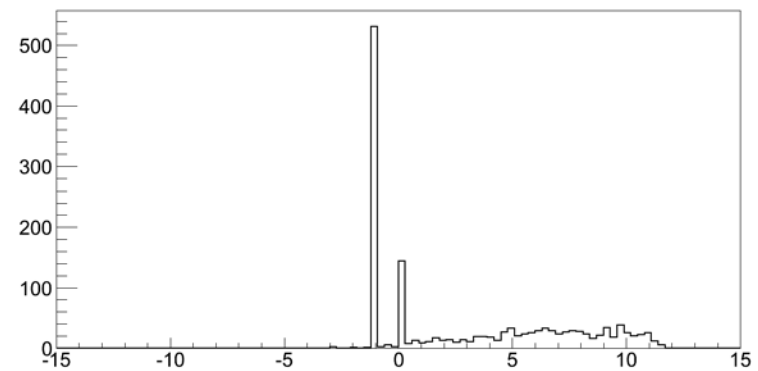
h_SV0_Bjet_matched



h_SV1_Ljet_matched



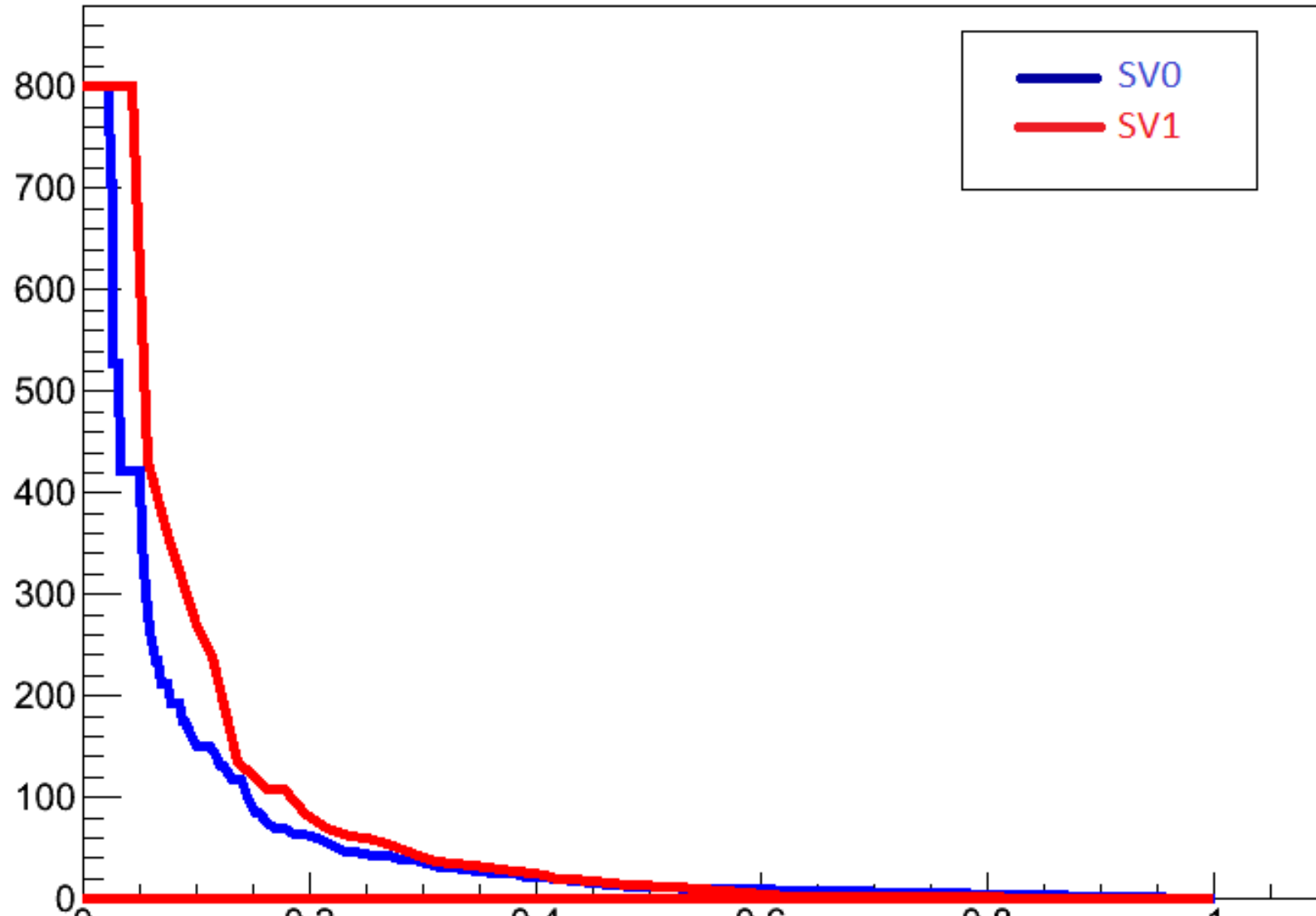
h_SV1_Bjet_matched



The ROC curve

Graph

light jet rej



conclusion

- ▶ SV1 looks better than SV0
- ▶ MV1 sounds promising but need some more check