

BDT for $B \rightarrow K\mu e$



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Go



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Variables

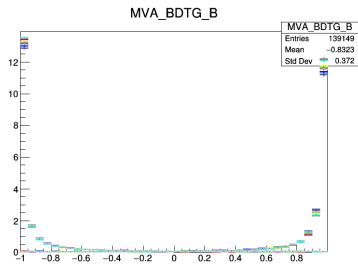
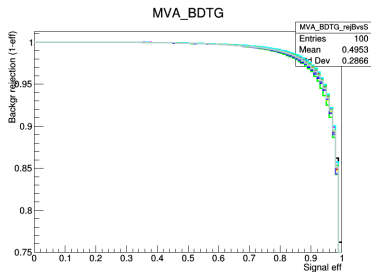
```
factory->AddVariable("B_P");
factory->AddVariable("B_PT");
factory->AddVariable("B_ENDVERTEX_CHI2");
factory->AddVariable("B_FDCHI2_OWNPV");
factory->AddVariable("B_IPCHI2_OWNPV");
factory->AddVariable("B_DIRA_OWNPV");

factory->AddVariable("Kplus_PT");
factory->AddVariable("Kplus_IPCHI2_OWNPV");

factory->AddVariable("TMath::Max(eminus_IPCHI2_OWNPV, muplus_IPCHI2_OWNPV)");
factory->AddVariable("TMath::Min(eminus_IPCHI2_OWNPV, muplus_IPCHI2_OWNPV)");
factory->AddVariable("TMath::Max(eminus_PT, muplus_PT)");
factory->AddVariable("TMath::Min(eminus_PT, muplus_PT)");

//isolations
factory->AddVariable("B_relinfo_BSMUMTRACKPLUSISOTWO_L1");
factory->AddVariable("B_relinfo_BSMUMTRACKPLUSISOTWO_L2");
factory->AddVariable("B_relinfo_cone_pt_asym_H");
```

Output



To Do

- ⇒ Do the same for only L0Muon trigger.
- ⇒ Check flatness.
- ⇒ Optimize the cut in 2D: BDT vs HOP.

Backup