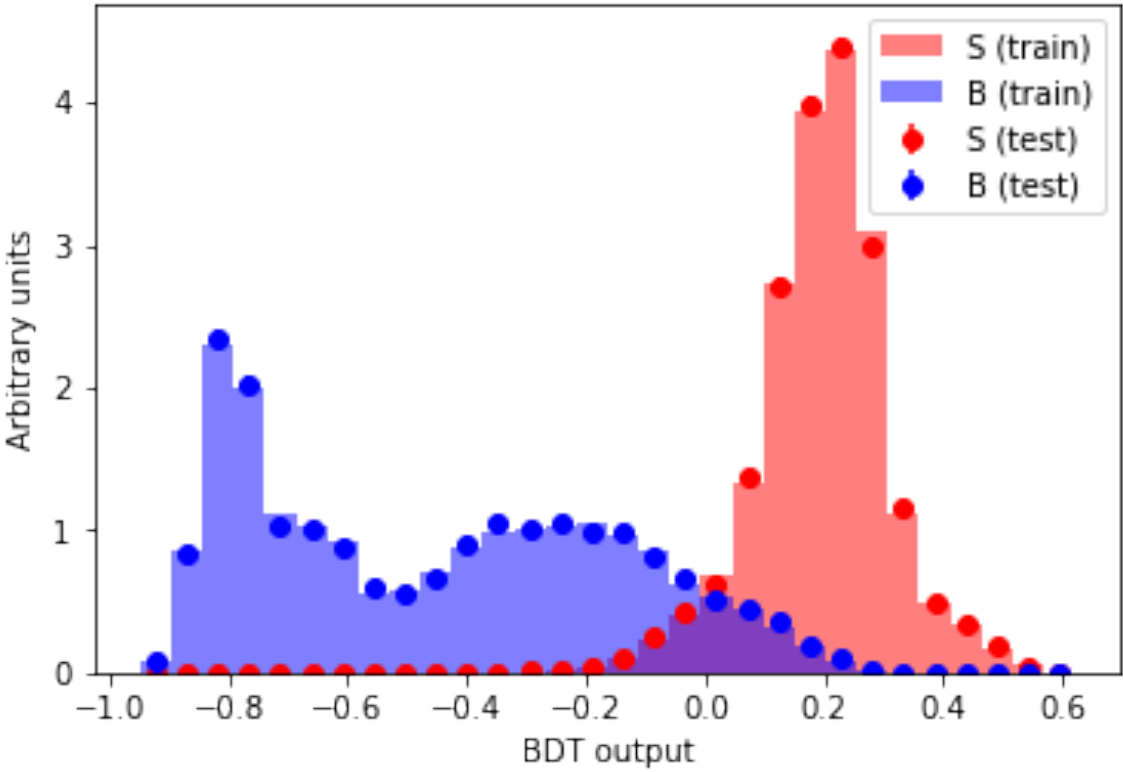
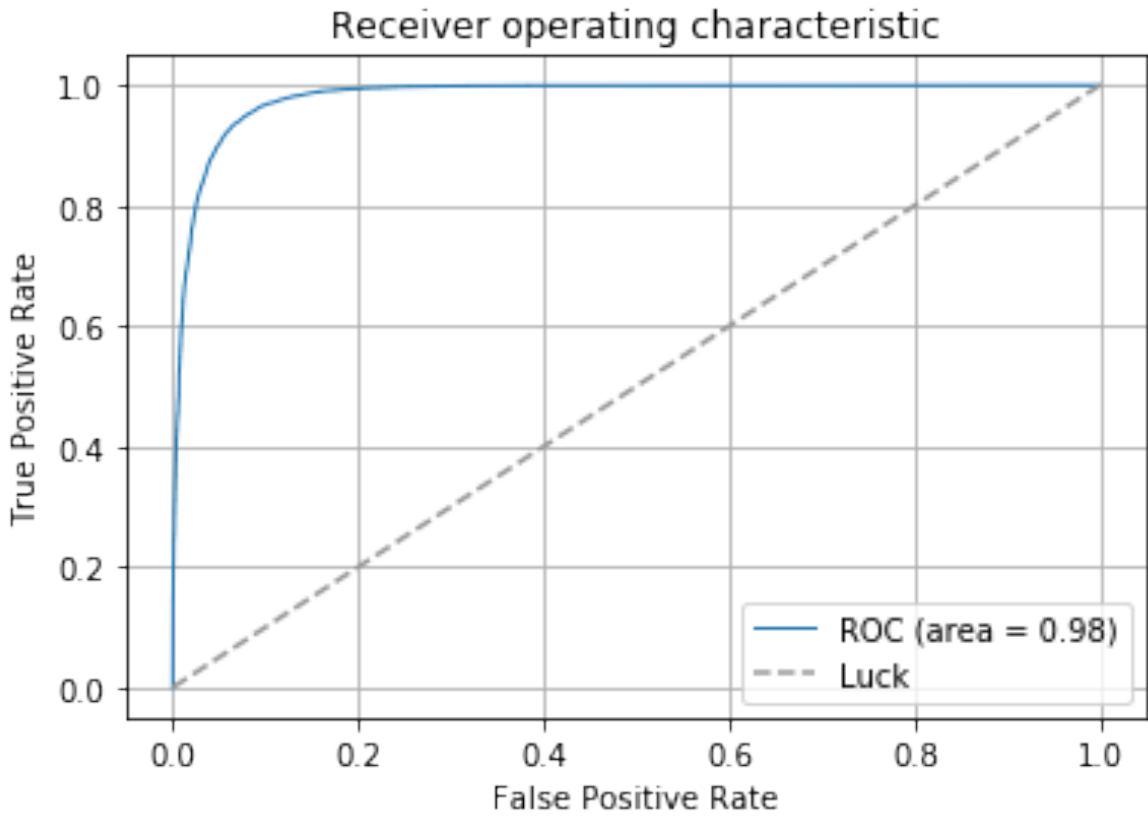


200K events

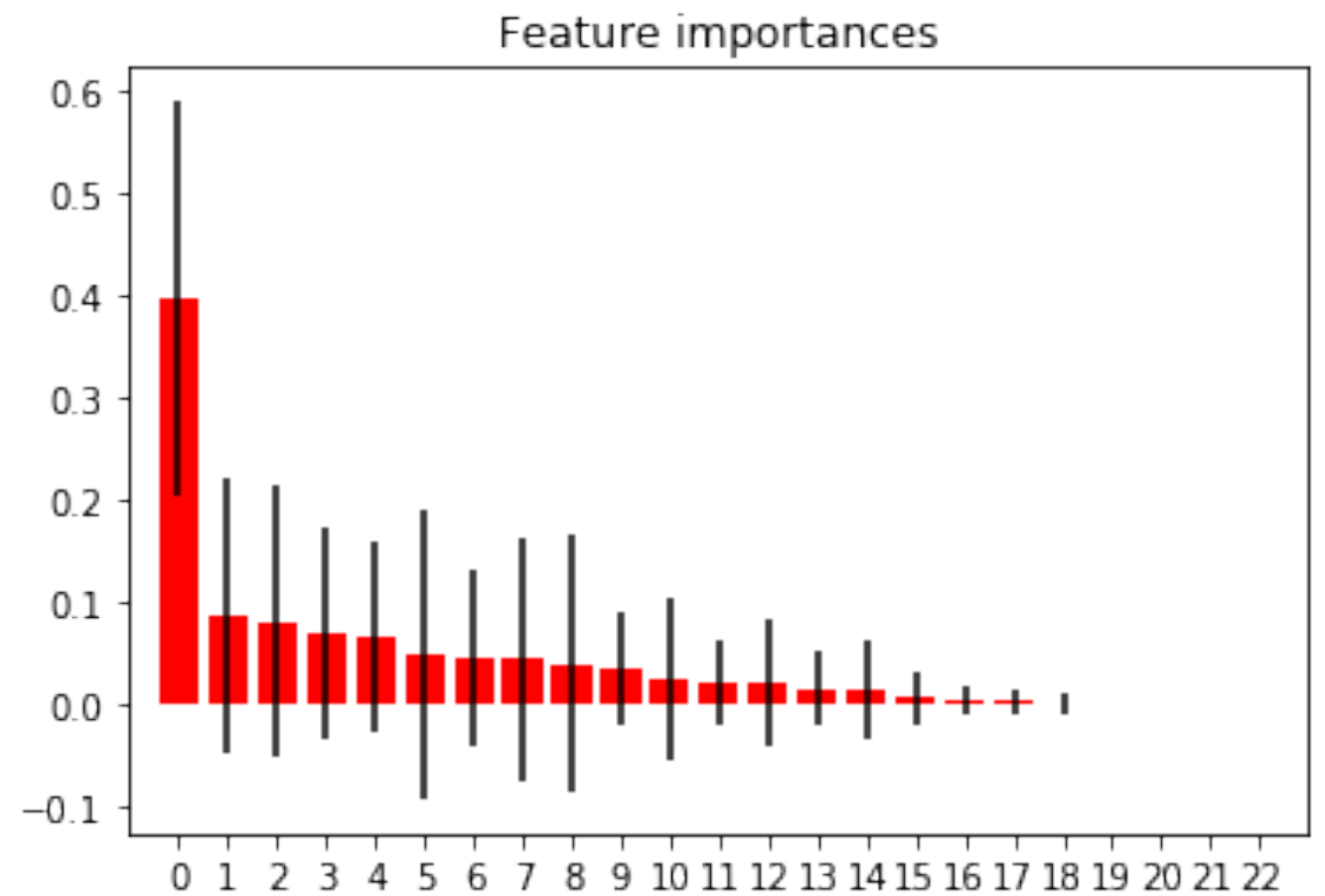
	precision	recall	f1-score	support
charged pion	0.95	0.92	0.93	15920
electron	0.92	0.95	0.94	15940
avg / total	0.94	0.94	0.94	31860

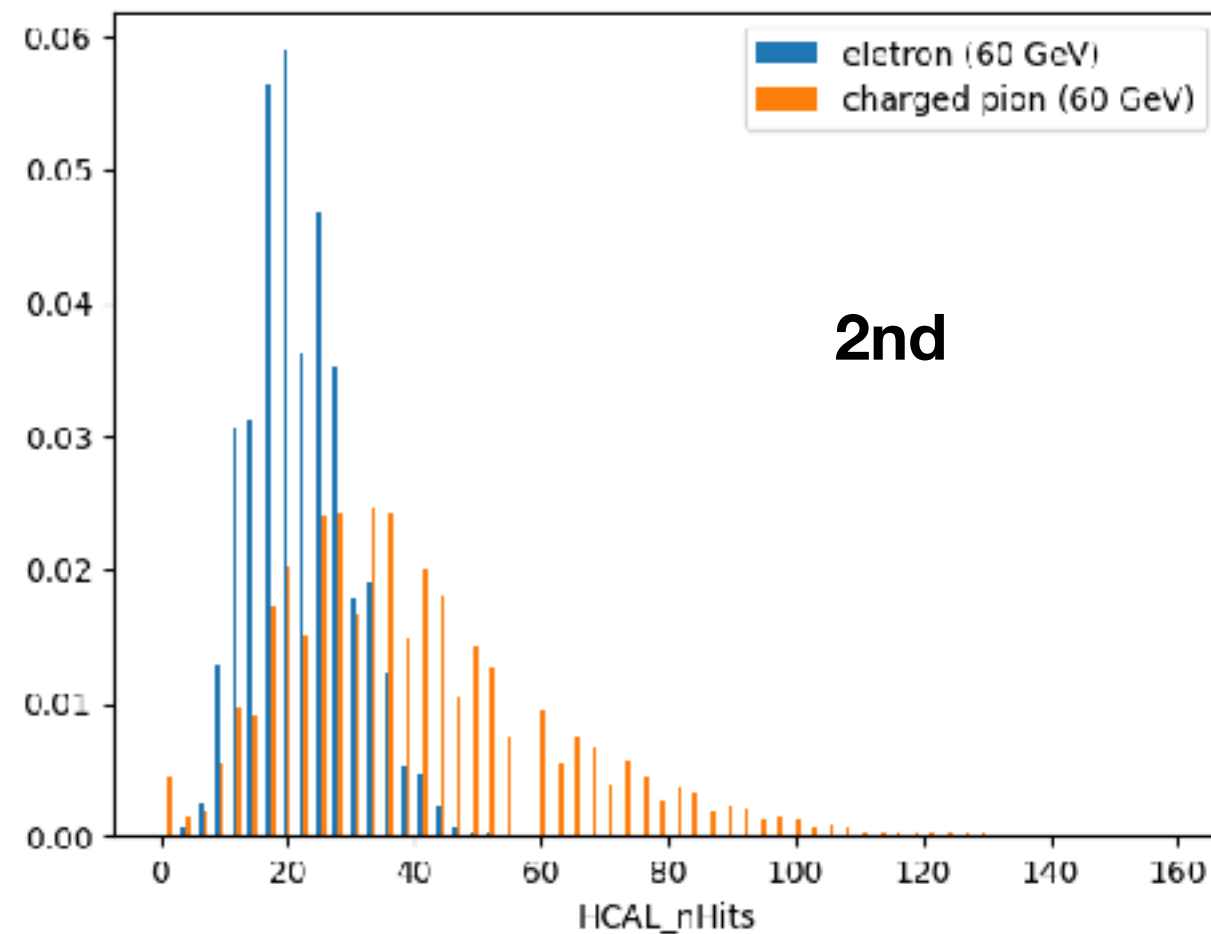
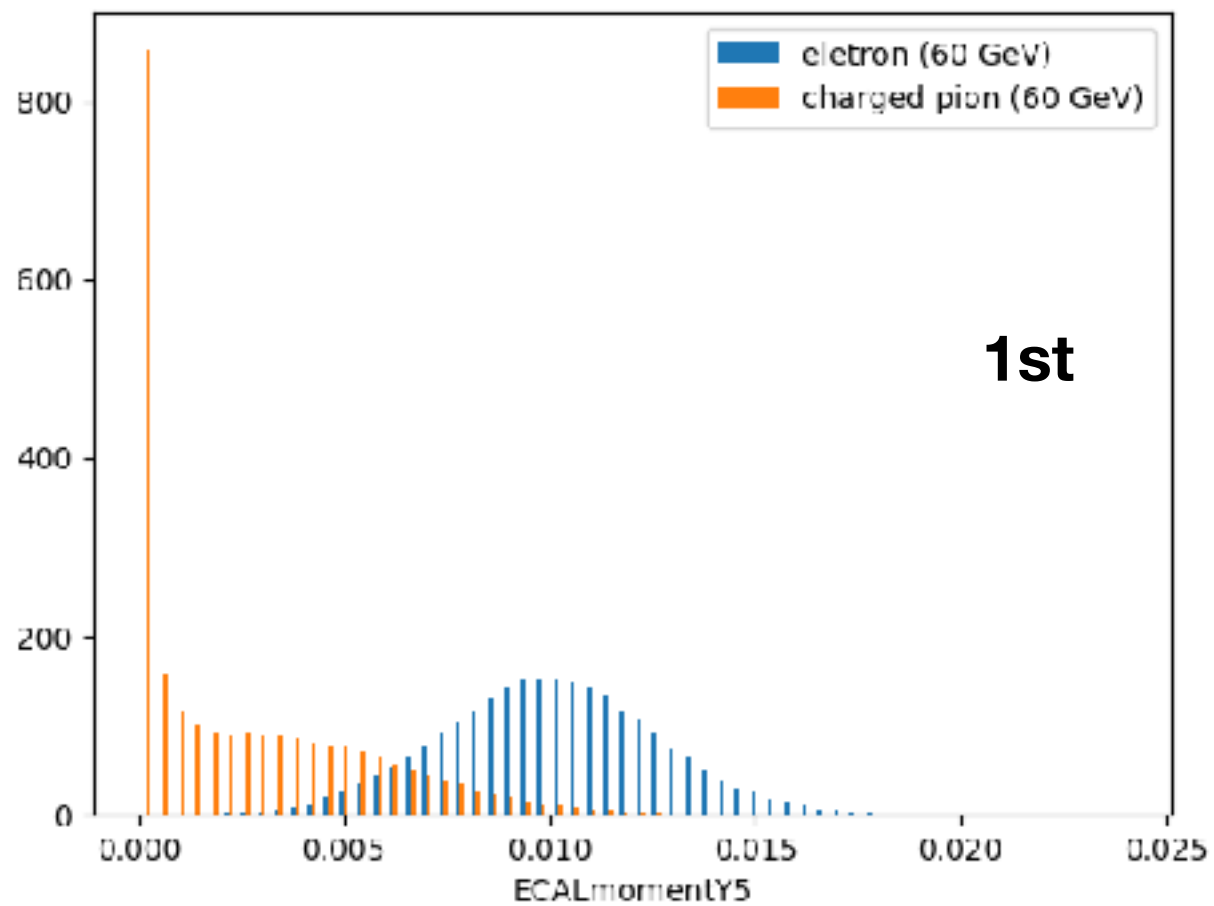
Area under ROC curve: 0.9816



### Feature ranking:

1. ECALmomentY5 (0.394826)
2. HCAL\_nHits (0.085434)
3. ECALmomentZ1 (0.079226)
4. ECAL\_E (0.067535)
5. ECALmomentX1 (0.064618)
6. ECALmomentY2 (0.048178)
7. ECALmomentX5 (0.044085)
8. ECAL\_nHits (0.043172)
9. ECALmomentY1 (0.038037)
10. ECALmomentY4 (0.034160)
11. ECALmomentX2 (0.023267)
12. HCAL\_ECAL\_ERatio (0.021149)
13. ECAL\_ratioFirstLayerToTotalE (0.020210)
14. ECALmomentY3 (0.014347)
15. HCAL\_E (0.012913)
16. HCAL\_ratioFirstLayerToTotalE (0.004421)
17. ECALmomentX4 (0.003118)
18. ECALmomentX3 (0.000960)
19. ECALmomentZ3 (0.000345)
20. ECALmomentZ2 (0.000000)
21. ECALmomentZ4 (0.000000)
22. ECALmomentZ5 (0.000000)
23. HCAL\_ECAL\_nHitsRatio (0.000000)





## Feature ranking

