



HF jets analysis

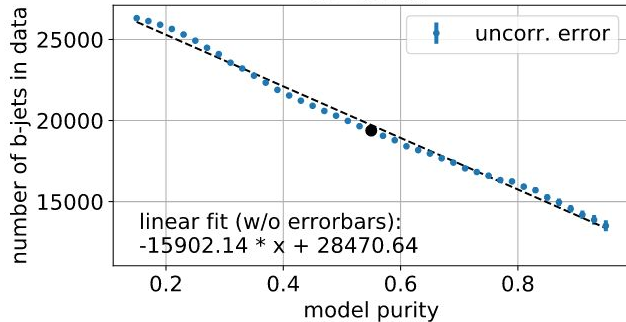
17.11.2020 ALICE@IFJ meeting

Sebastian Bysiak

OLD: no reweighting ([83aa0c](#))

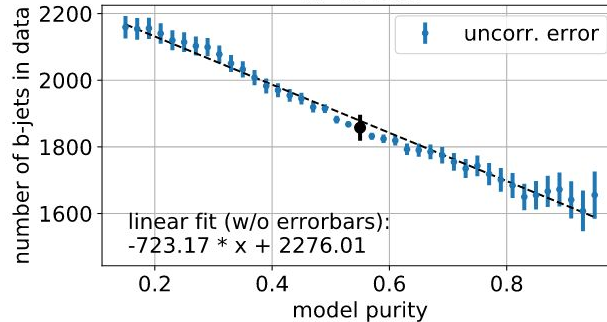
left: (0.42458, 0.802, 0.1385, 0.150)
centre: (0.86053, 0.498, 0.0124, 0.550)
right: (0.99297, 0.093, 0.0001, 0.950)

10 – 20 GeV/c



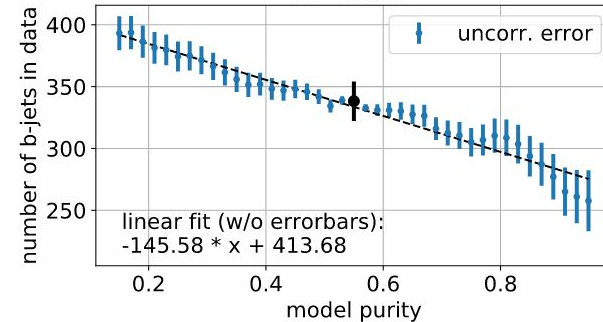
left: (0.32572, 0.894, 0.1777, 0.150)
centre: (0.83784, 0.680, 0.0195, 0.550)
right: (0.99140, 0.243, 0.0004, 0.950)

20 – 30 GeV/c



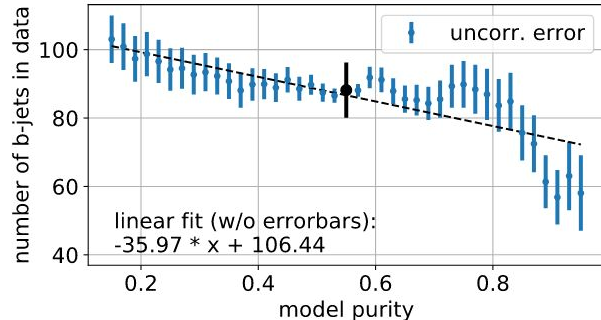
left: (0.31552, 0.914, 0.1849, 0.150)
centre: (0.84733, 0.730, 0.0213, 0.550)
right: (0.99198, 0.284, 0.0005, 0.950)

30 – 40 GeV/c



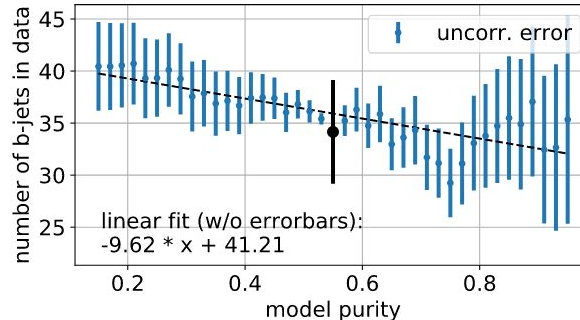
left: (0.32741, 0.921, 0.1833, 0.150)
centre: (0.86609, 0.743, 0.0213, 0.550)
right: (0.99262, 0.295, 0.0005, 0.950)

40 – 50 GeV/c



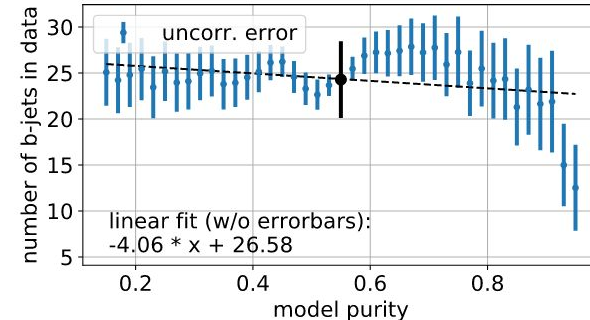
left: (0.34082, 0.930, 0.1810, 0.150)
centre: (0.87861, 0.757, 0.0215, 0.550)
right: (0.99399, 0.267, 0.0005, 0.950)

50 – 60 GeV/c

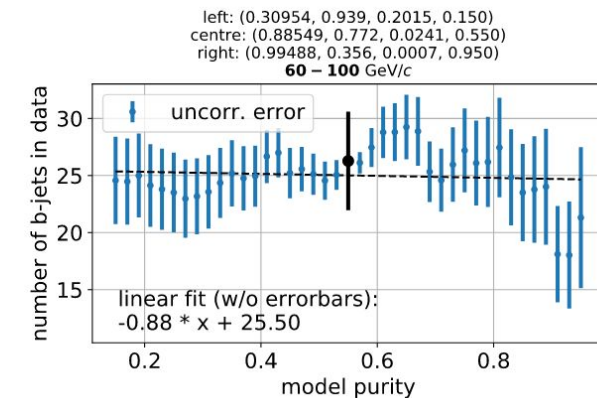
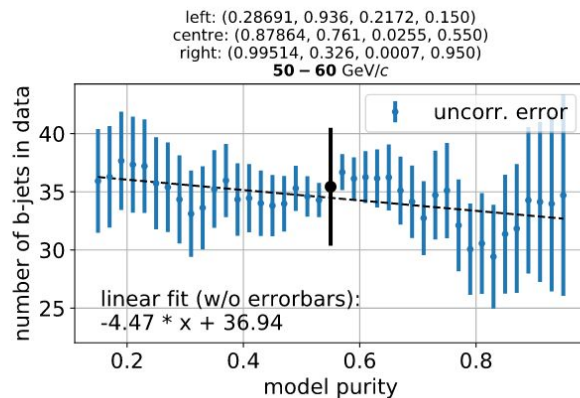
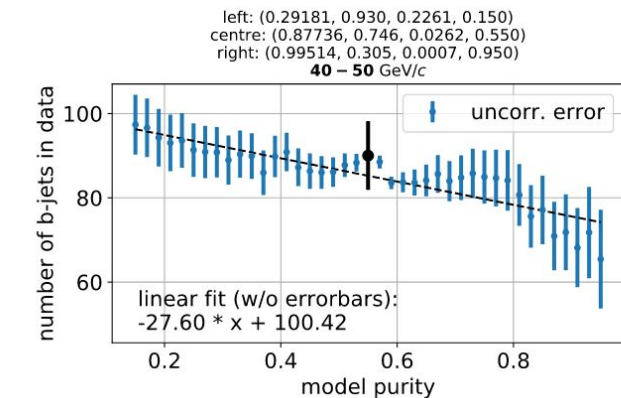
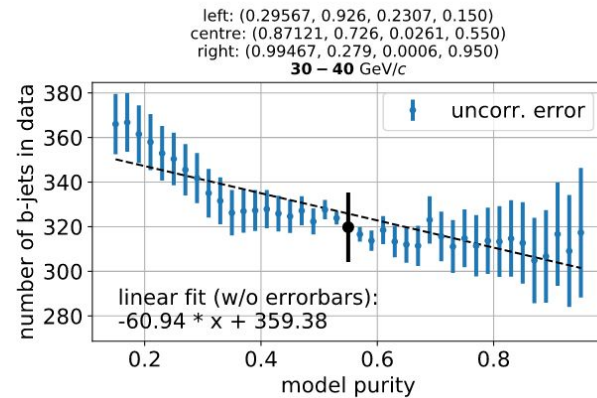
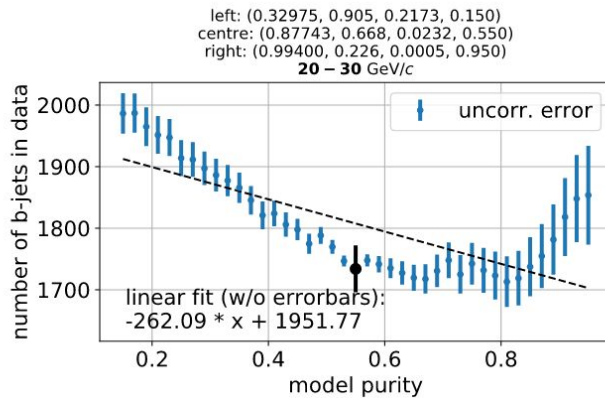
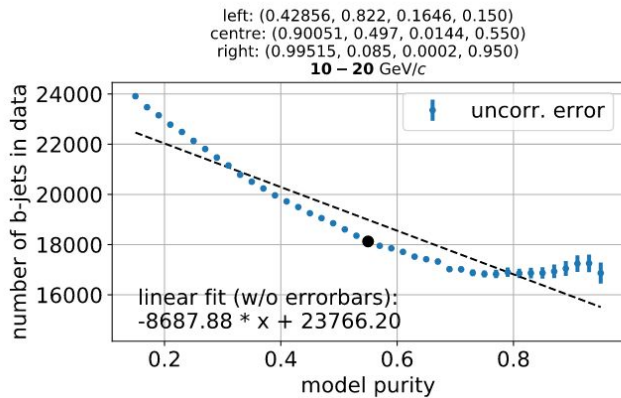


left: (0.38038, 0.934, 0.1701, 0.150)
centre: (0.89594, 0.768, 0.0202, 0.550)
right: (0.99322, 0.304, 0.0005, 0.950)

60 – 100 GeV/c

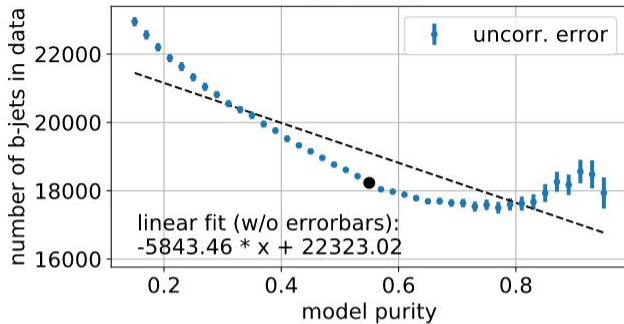


OLD: first reweighting results ([fd11eb](#))

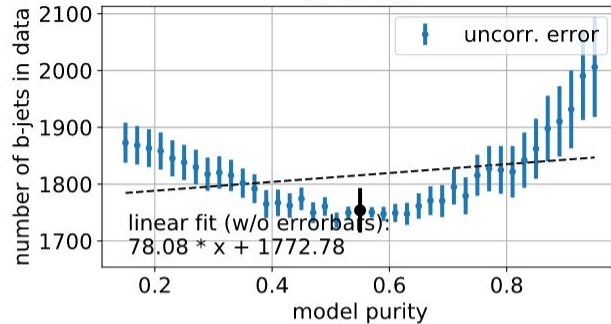


NEW: reweighting [\(89a5a9\)](#)

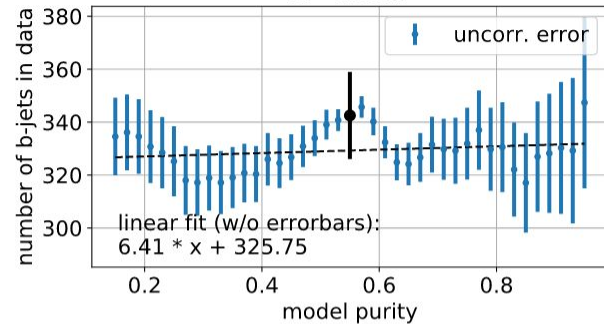
left: (0.44591, 0.815, 0.1632, 0.150)
centre: (0.90564, 0.473, 0.0137, 0.550)
right: (0.99521, 0.078, 0.0001, 0.950)
10 – 20 GeV/c



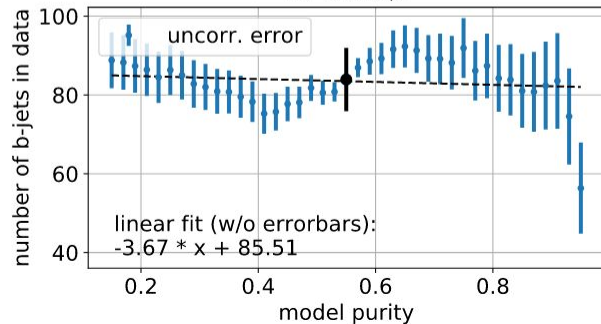
left: (0.35425, 0.900, 0.2229, 0.150)
centre: (0.88652, 0.643, 0.0230, 0.550)
right: (0.99428, 0.206, 0.0005, 0.950)
20 – 30 GeV/c



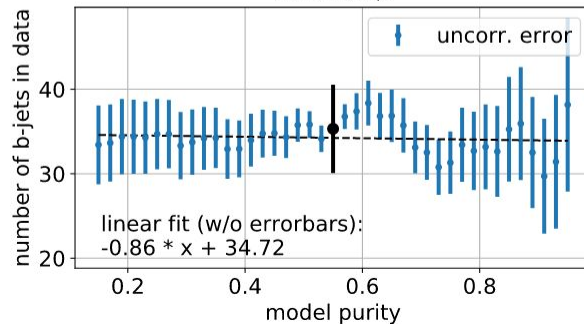
left: (0.31904, 0.920, 0.2357, 0.150)
centre: (0.87886, 0.703, 0.0260, 0.550)
right: (0.99498, 0.251, 0.0006, 0.950)
30 – 40 GeV/c



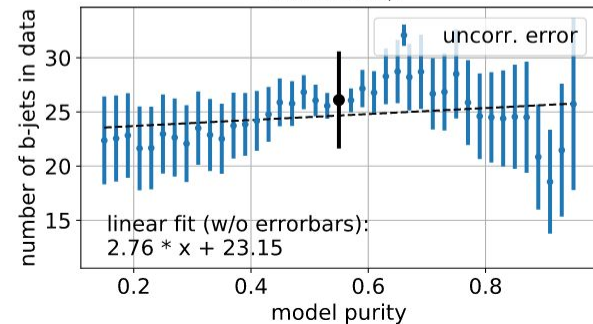
left: (0.32807, 0.921, 0.2214, 0.150)
centre: (0.88741, 0.716, 0.0248, 0.550)
right: (0.99554, 0.270, 0.0006, 0.950)
40 – 50 GeV/c



left: (0.32873, 0.921, 0.2057, 0.150)
centre: (0.88904, 0.717, 0.0232, 0.550)
right: (0.99559, 0.274, 0.0006, 0.950)
50 – 60 GeV/c

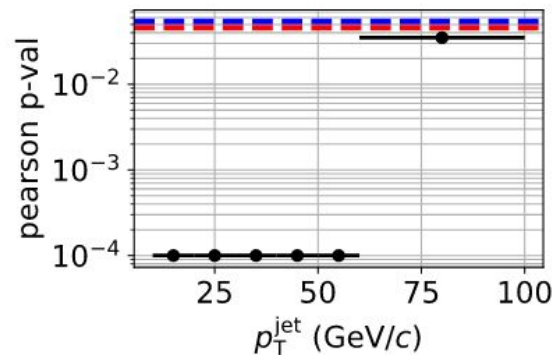
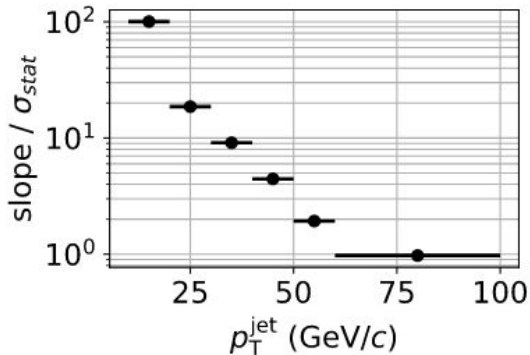
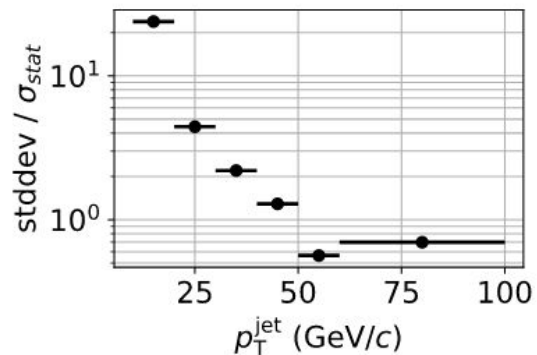
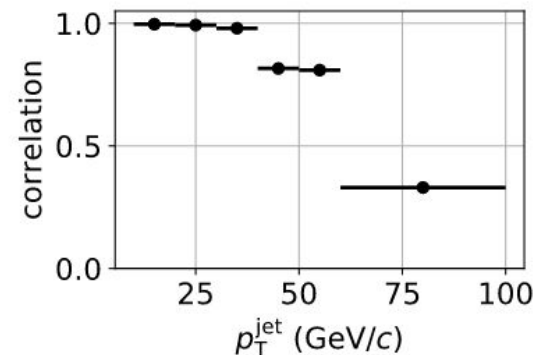
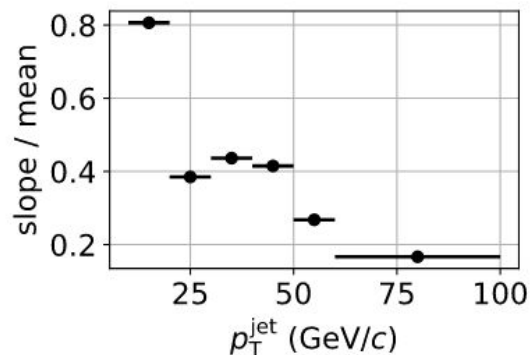
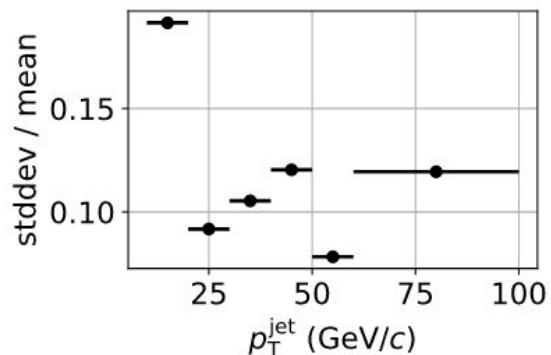


left: (0.37080, 0.920, 0.1824, 0.150)
centre: (0.90298, 0.717, 0.0205, 0.550)
right: (0.99548, 0.298, 0.0005, 0.950)
60 – 100 GeV/c

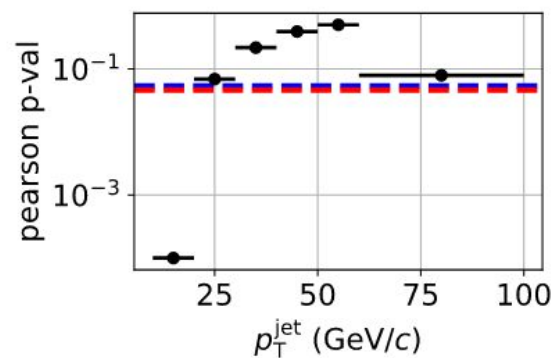
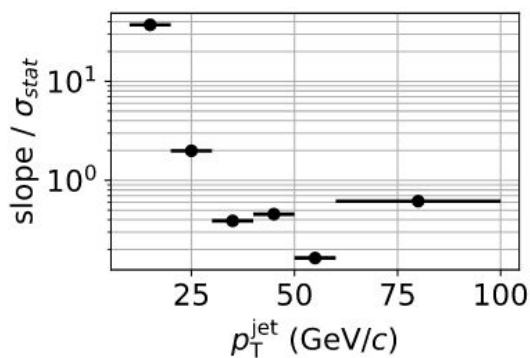
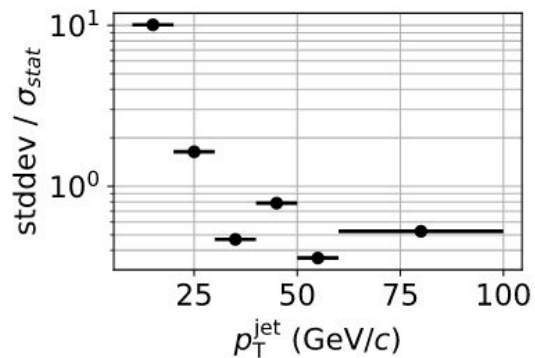
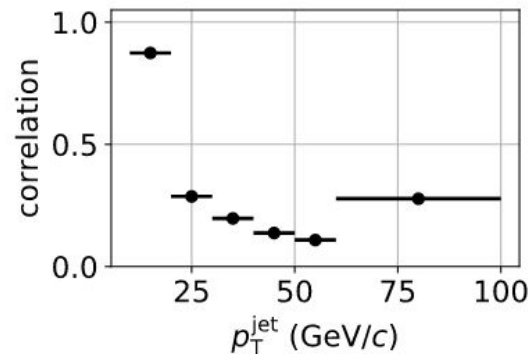
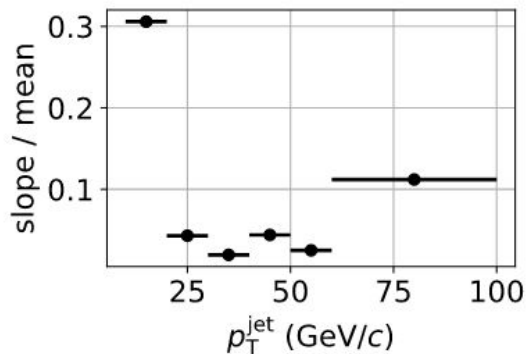
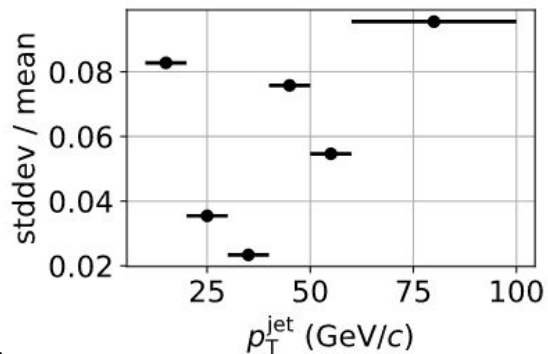


OLD: no reweighting ([83aa0c](#))

proxies
for sys. err.

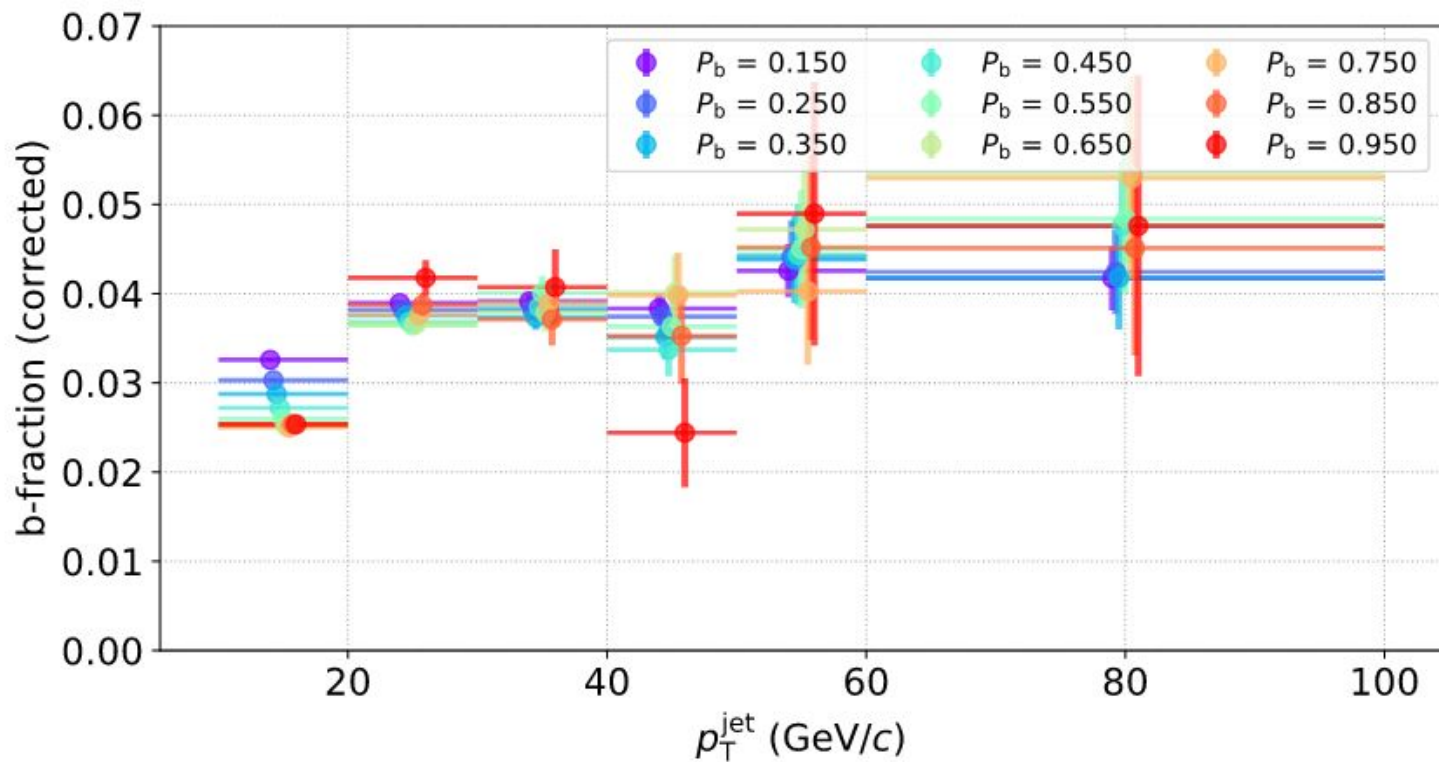


NEW: reweighting [\(89a5a9\)](#)

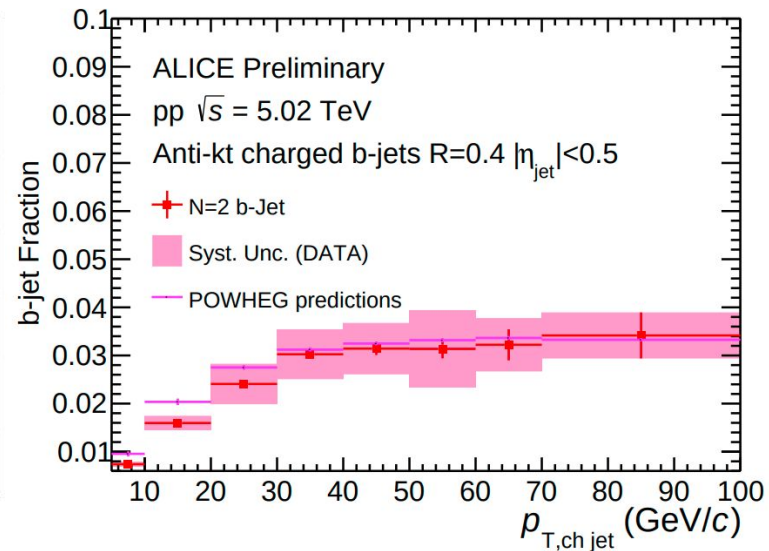
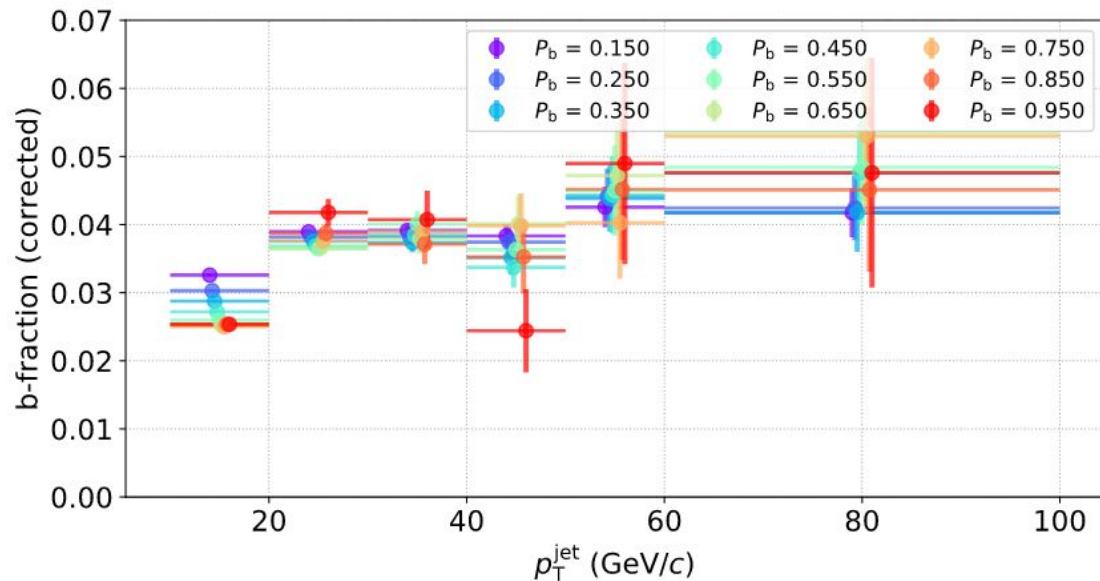


proxies
for sys. err.

NEW: reweighting ([89a5a9](#))



Incompatible results?



- I will not do much this week due to preparations for MNN...
- Still few rather minor ideas for improvements
- your suggestions?
 - invariant obs: inv. mass of the jet, other... (before & after rew)
 - overestim. could come from V0 as strangeness is underestim. in MC
 - inv. mass of pairs of tracks contributing to SV
 - compare model trained on just SV
 - AxE corr