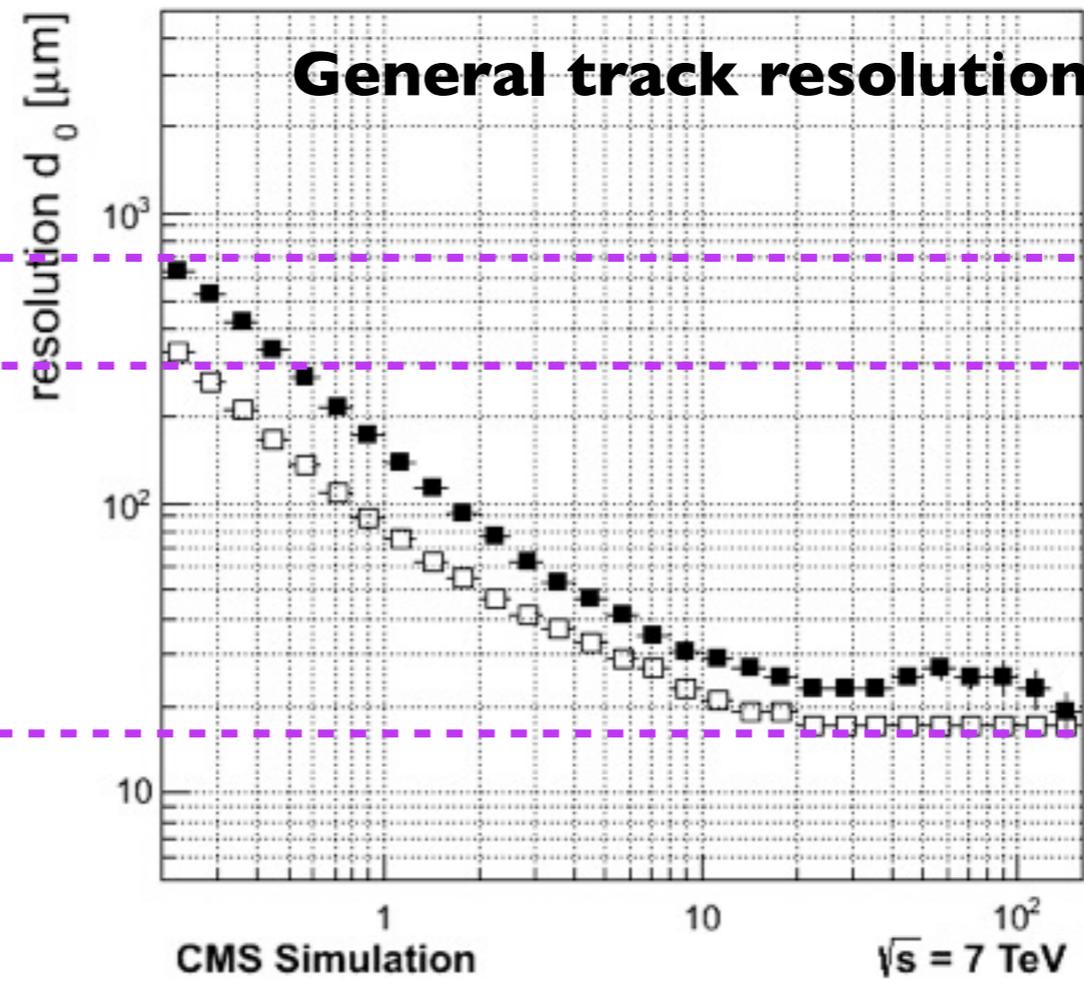
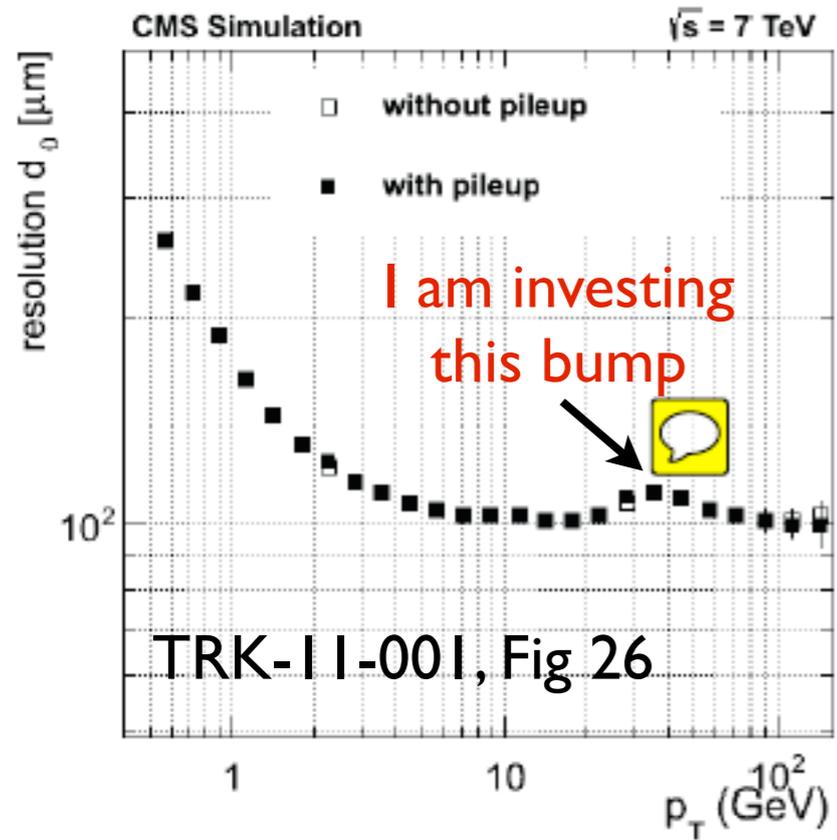


From Boris - as in TRK-II-001, Fig 20

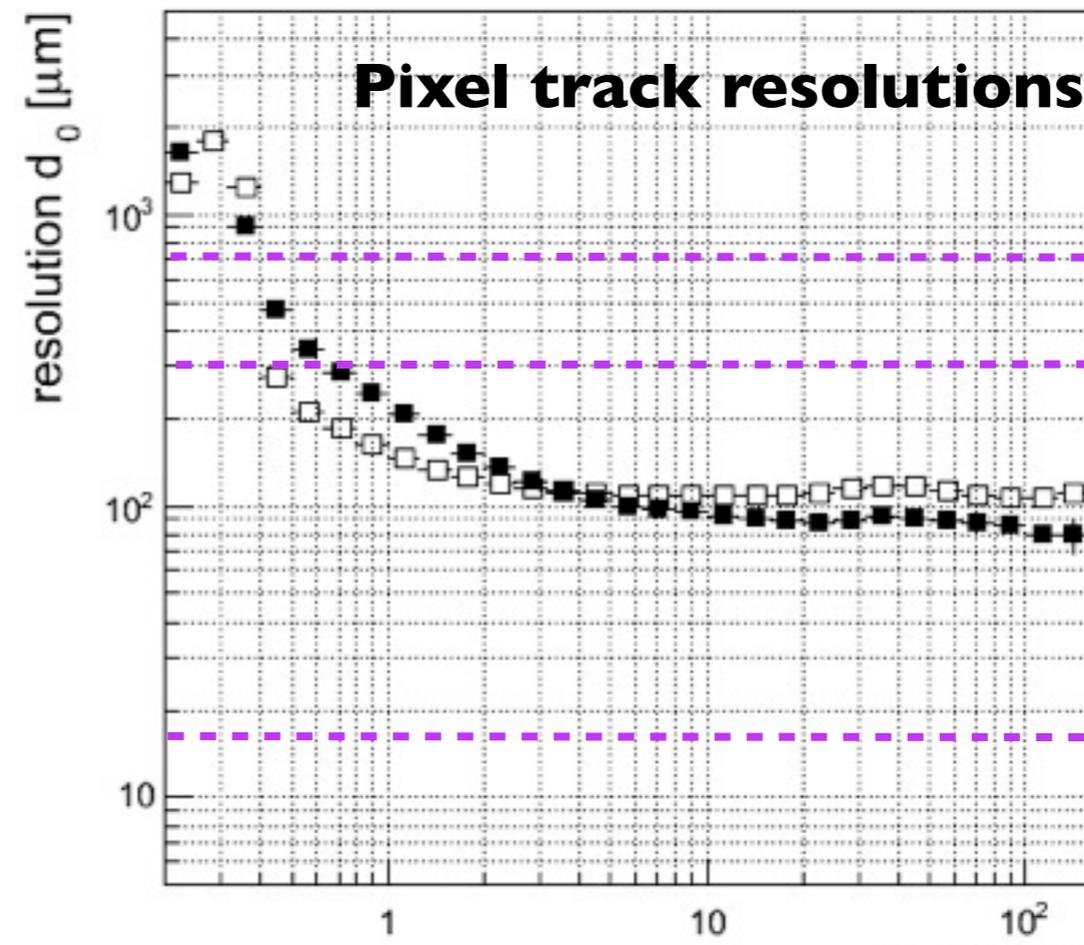


I tried reproducing Boris' plot, the slight difference is due to the fact that Boris considered high purity tracks and I am considering all general tracks



I am investigating this bump

TRK-II-001, Fig 26



I tried to look into pixel track resolutions in barrel and in endcap separately as suggested by Kevin B, whether the convolution is causing the hump around 30 GeV as seen in Fig 26

- This plot is a repeat of the the bottom right plot in previous page, I just wanted to say that which region one should seriously take for pixel tracks as we dont have many entries for too low and too high pt's.

Pixel resolution should be measured from

$0.4 < p_T < 125$  for barrel

$0.4 < p_T < 80$  for endcap as beyond this the fits are bad

The bottom line: Though we started investigating the cause of the hump in this method, but then we discovered something strange going on with pixel tracks which is then discovered by Kevin S as a bug : the usage of reconstructed track momentum in the resolution plots instead of simtrack momentum - you can follow the cue from Boris's mails today.

