Alaa Weekly Update, August 14th

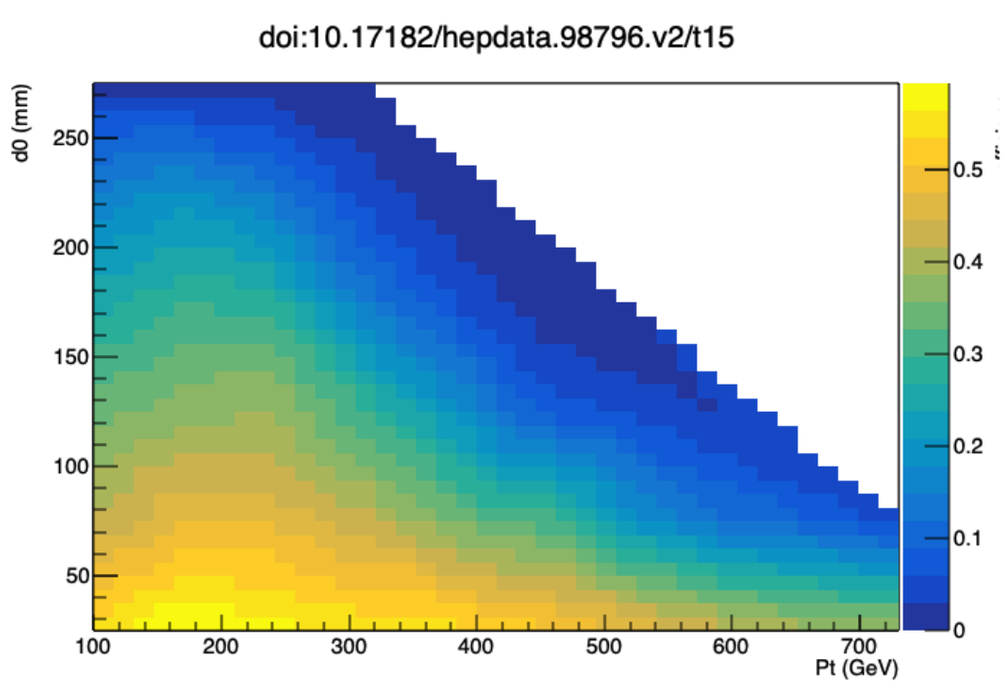
Last week's minutes

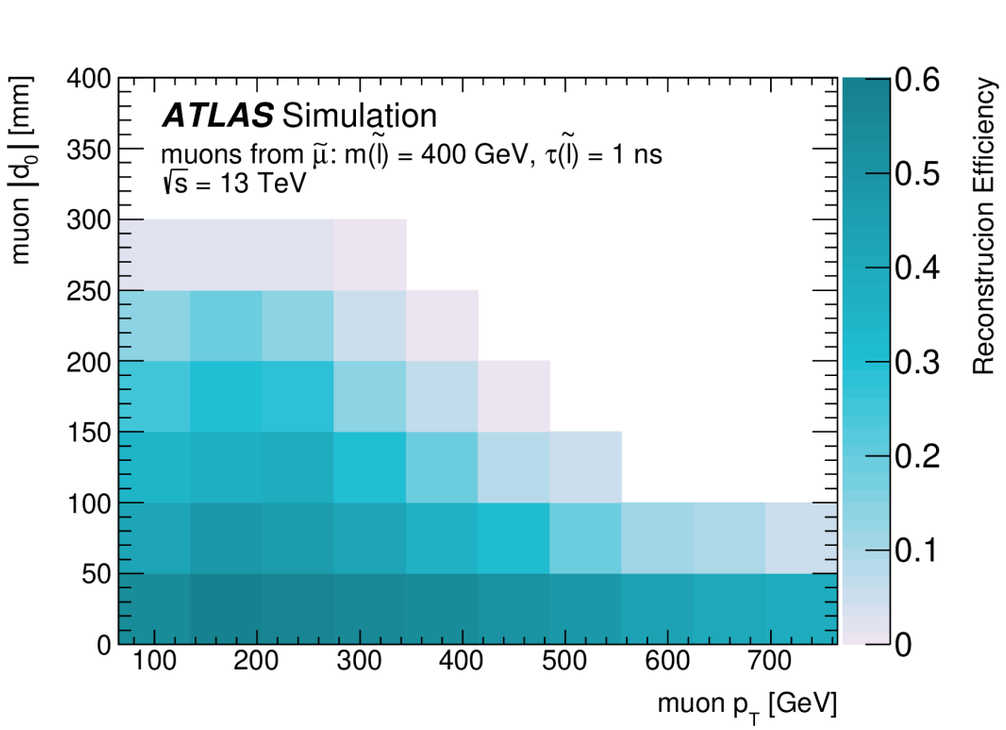
- Calculate the uncertainty on the numbers -- either by hand (carefully!) or by a single bin histogram -> TEfficiency
- Advance to applying detector efficiencies to get a total number of surviving events!
- Generate the other grid points and repeat!

This week:

- Calculated uncertainty both by hand and using TEfficiency
  Acceptance = 0.3928 ± 0.0034
  It does not match with the paper value of 0.360 but the difference is only ~9%

- Accessed the efficiency (as function of d_0 and P_t) graph, converted it to a histogram





- Wrote a code to sample efficiencies from the histogram and apply them via a random number generator
  The general structure of the code seems logical
- Testing and troubleshooting the code (right now it is showing 0 as total number of surviving events)