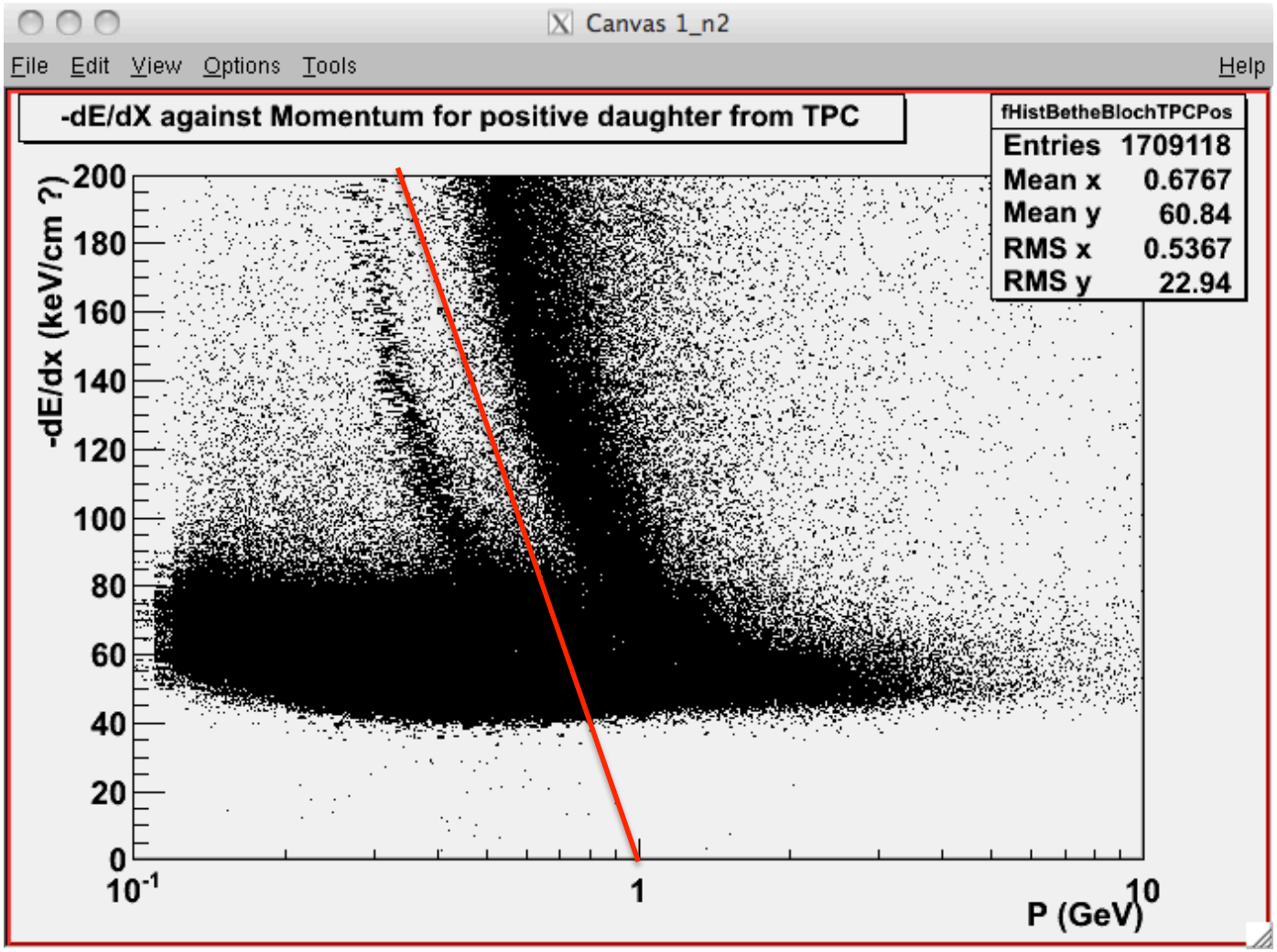
Work over the last week:

- Installed AliEn, Root, AliRoot etc. on my laptop: seemed to go okay, but theres some bug in my Root; Lee's offered to look through it with me.

- Finished my simulation; and checked it and my reconstruction code by feeding one into the other.

- Looked at Bethe-Bloch plot: can eliminate a lot of V0s with a positive daughter that is clearly not a proton.

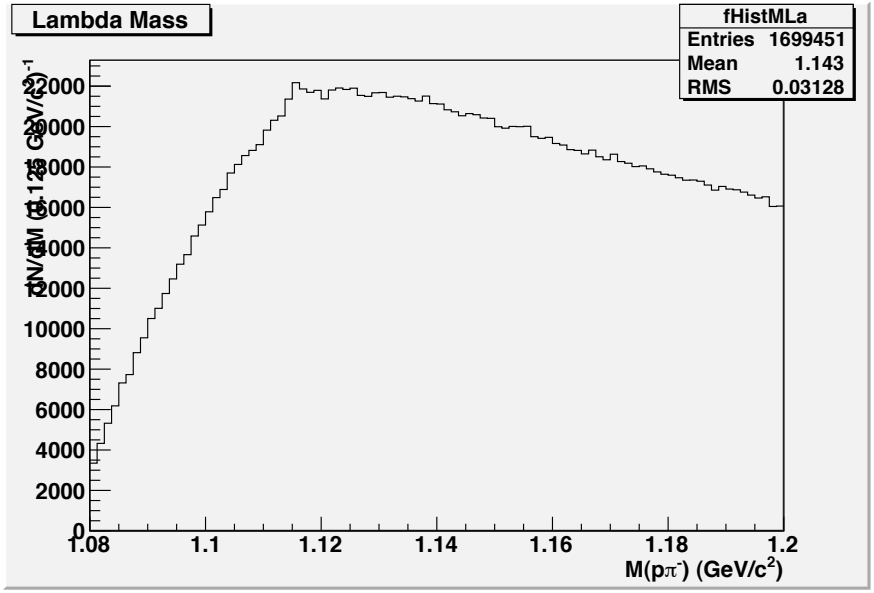
Bethe Bloch plot

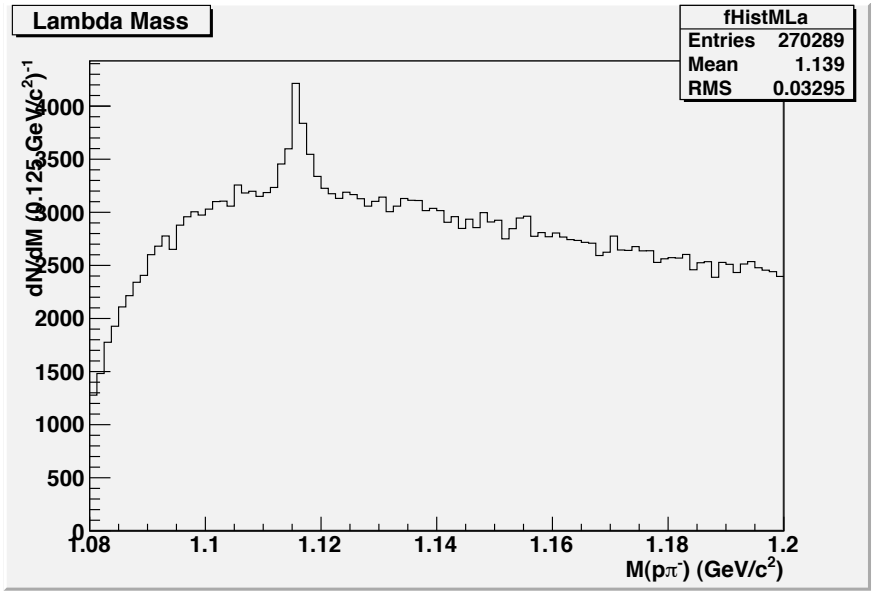


Signal taken for the positive track in the TPC. X axis is logarithmic.

- Cut indicated by red line.

Results of Bethe Bloch cut





Left hand plot is the original signal, right hand side is after the cut. Plots contain all P_T bins.

- Clear enhancement of signal from negligible to ~⅓ of background.

- From M. Lamonts thesis, have hopes that this in combination with an optimisation of cuts already tried will allow a clear signal extraction.

Work ongoing...

- Simulation showed some potential cuts on E_π/E_P , or θ_π-θ_P (in V0 rest frame).

- However, quick trials have found these cuts to be mass dependant, causing pseudo-peaks at ~ M_Λ . Want to comfirm this, but will probably avoid these cuts.

- Plan is to set up a simple format & script to allow an iterative optimisation of cuts.