MIPP Software Meeting 02/07/2008

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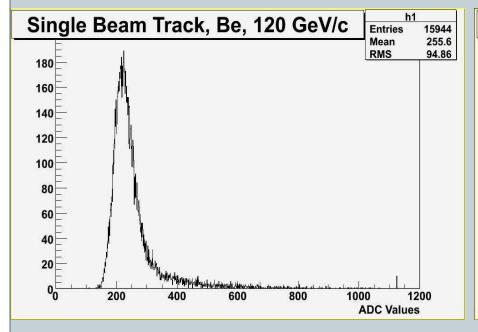# Scintillator Digitizer Status Report

YUSUF OGUZHAN GUNAYDIN
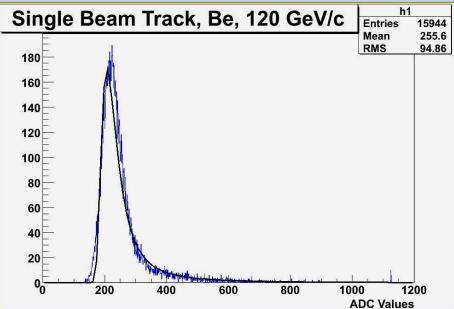### UNIVERSITY OF IOWA
DEPARTMENT OF PHYSICS & ASTRONOMY

What did I do?

- I used to get the two type of plots
- Scintillator ADC values plots
- Scintillator Energy Deposition(ED) Distribution plots.
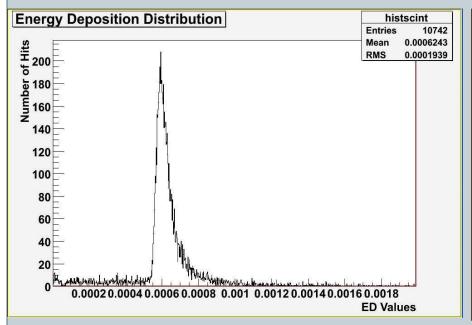- I also created ADC digits plot and applied the same landau fit on it.

This plot shows ADC values that is created from real data on Beryllium target at 120 GeV/c momentum. I used to apply Landau fit on this graph but I'm also going to apply Poisson function to get better fit.
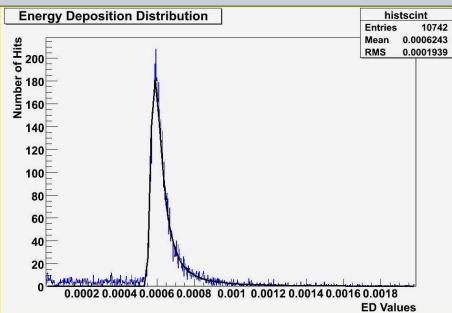
This plot is created from MC root file which represents energy deposition in scintillator. The same fit is applied for this plot.
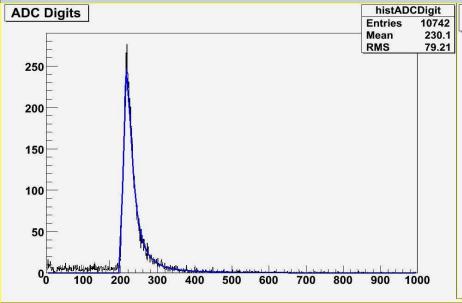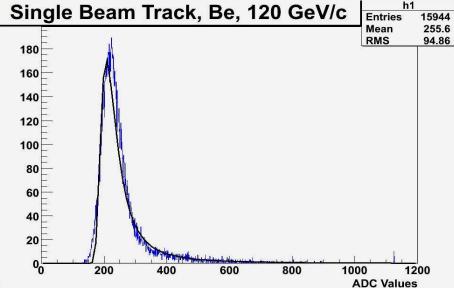
The plot on left hand side represents ADC digits which are created by ScintDigitizer module. Landau fit applied on it. The other plot is created by DST method.

What is the next step?

- I'm trying to write ADC digits on output file.
- Instead of DST method, ADC histogram is going to be created by ANA method.