

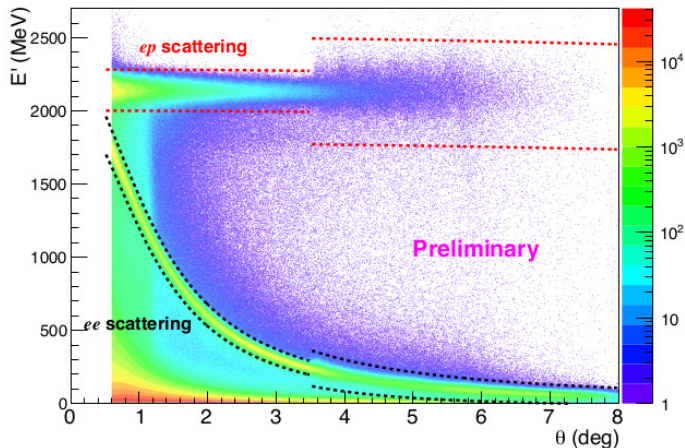
## Energy Density Profile

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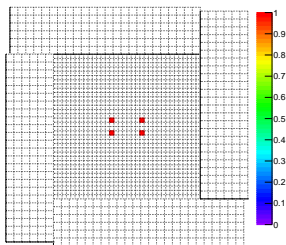
December 1, 2017

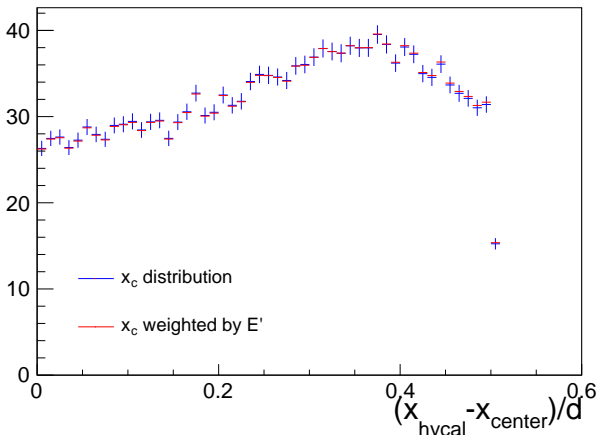


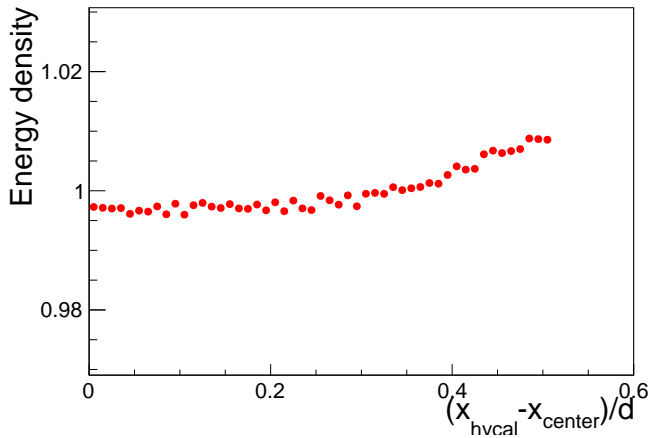
Cluster Energy  $E'$  v.s. scattering angle  $\theta$  (2.2 GeV)

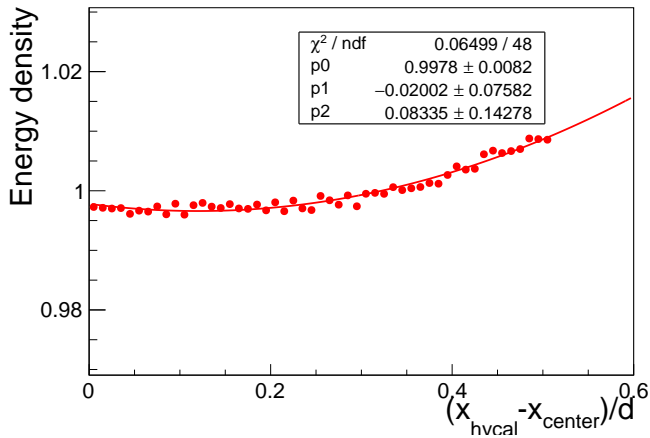


- ▶ Method and functions taken from A. A. Lednev, NIM Physics Research A 366 (1995) 292-297
- ▶ correction of reconstruction on the variable  $x_0 = (x_{rec} - x_{center}) / size_{cell}$
- ▶ corrected variable  $x = x_0 + c(x_0)$
- ▶ summation of 4 symmetrical modules to cancel out the physical distribution shape both in x and y coordinates









- ▶ Just a start
- Need to see how the density correction influence this energy density
- ▶ Seems to be uniform