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Subject: Dirc+TOF

Posted by [Stefano Spataro](#) on Wed, 06 Aug 2008 10:02:46 GMT

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Here you are the plot of Theta Cherenkov vs reconstructed momentum, using the lhetrack tracking+correlation, 1000 events with DPM at 4 GeV/c:

It looks quite good, the theta\_Cherenkov is smeared inside the DrchHitProducerIdeal (thanks to Annalisa). The two shapes are due to pions and protons... it seems in DPM there are no kaons!

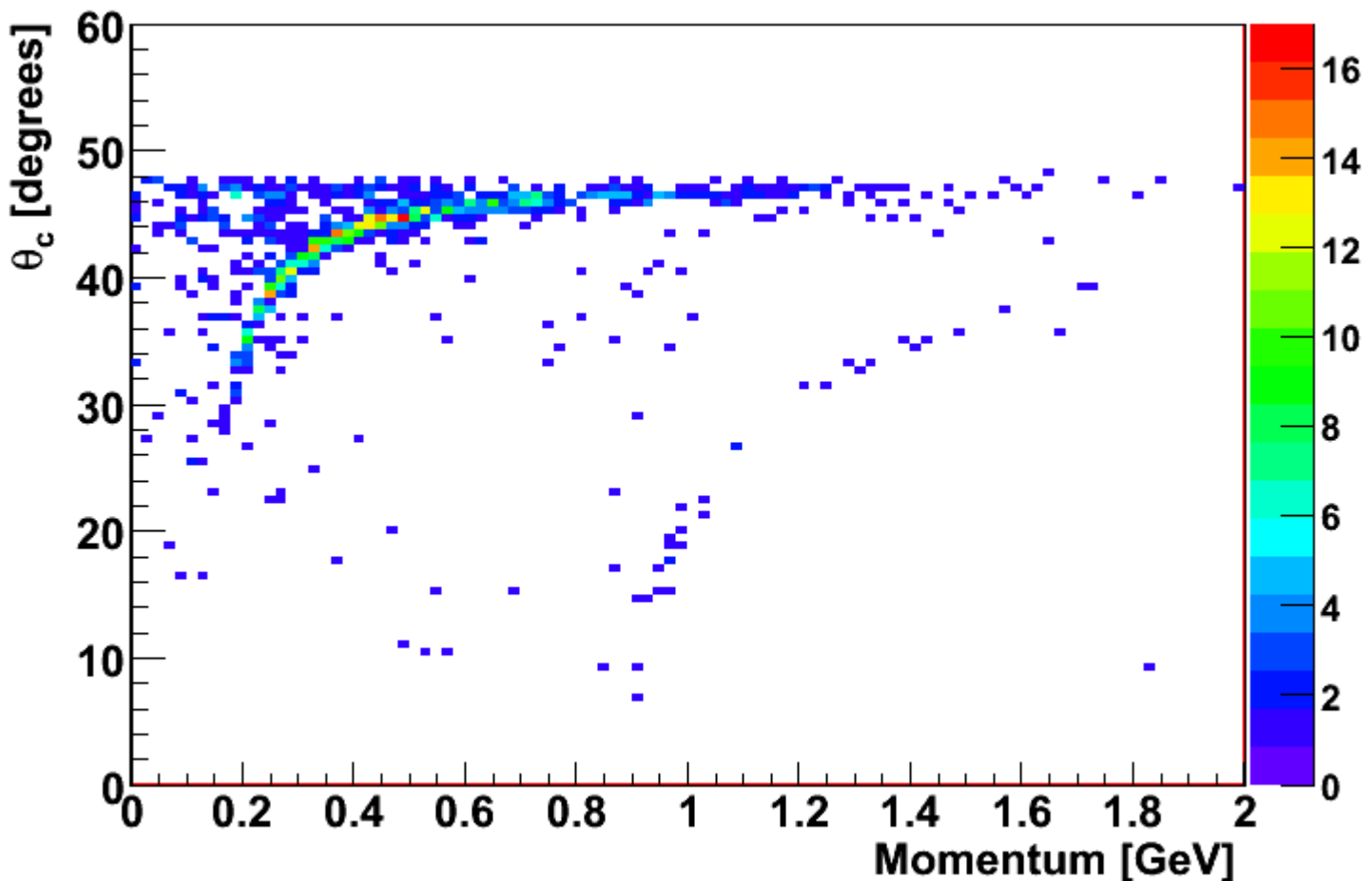
Meanwhile I have also put the correct track length to the TOF detector, in order to calculate beta:

Even this plot looks quite nice.

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#### File Attachments

1) [lhe\\_thetac.gif](#), downloaded 840 times



2) [lhe\\_betap.gif](#), downloaded 791 times

