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Subject: Tracking: Kalman Task with STT,(electron hypo)

Posted by [M.Babai](#) on Tue, 21 Dec 2010 10:47:42 GMT

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Dear all,

I was playing around to produce new datasets for the EMC pid stuff. Using the PndRecoKalmanTask I could get the reconstructed momentum for each track. Also, I saw that it is possible to change the particle hypothesis. As I could see the default value is set to muon. I have changed this to electron for electron simulations to see either the results get better or not. Unfortunately I saw that changing the hypothesis leads to even worse results for electrons. The graphs are included here (p\_mc = Monte Carlo momentum and p = momentum obtained from the track after Kalman ); the macro's are available in "PndTools/MVA/macro/". Am I doing something wrong or is it expected to be like this?

Best regards,

#### File Attachments

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- 1) [electronHypo.png](#), downloaded 754 times
  - 2) [muonHypo.png](#), downloaded 660 times
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