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Subject: Re: Lhe tracking results: reconstruction error for transverse momenta  $\leq 1$  GeV/c, all five partic

Posted by [Stefano Spataro](#) on Tue, 23 Nov 2010 22:30:35 GMT

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Hi,

about the systematic shift of the electron residual, I think this could be correlated to bremsstrahlung, then the MC momentum is higher than the reconstructed one.

About bad resolution for protons and kaons, maybe you could try to plot the LheHit Y vs X so see if they are really helix or if they are too curly.

You should also check the angle resolution. If maybe the helix momentum is fine, but the theta is wrong, maybe the kalman is not able to fit the track properly.

Just trying to guess, I have never checked the reconstruction for other particles different from muons.

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