Subject: Re: Momentum resolution and reconstruction efficiency of LHE tracking
Posted by Johan Messchendorp on Wed, 10 Feb 2010 23:30:36 GMT
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Stefano Spataro wrote on Thu, 11 February 2010 00:21Hi,
LHE ideal track finder is an ideal track finder (no conformal mapping) inside lhe package However, the SttHelixHit are coming from the (realistic) STT helix fit. This means that, if for some reason the stt helix fit failed, lhe will have no hits (or maybe wrong hits), and the track will be simply lost. This effect is more pronounced at low momenta, were for some unknown reason the Z coordinate had systematic deviations.

Ok, now I understand. As a proof of principle, would it be possible to have the option to take the MC-matched PndSttHits, which are - I guess - before the helix fit? I am trying to see whether we would could provide easily a more efficient track efficiency, albeit less realistic.

Johan.