
Subject: Re: GENFIT for transverse momenta < 200 GeV/c strange?!

Posted by [Stefano Spataro](#) on Thu, 18 Nov 2010 13:51:46 GMT

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Jens Soeren Lange wrote on Thu, 18 November 2010 13:53: Hi David,

first question: can you check, which SVD geometry are you using? with cables etc.? (so maybe it even becomes worse).

Then, as a possible explanation:

The TPC is split into 2 parts, left and right, by the target beam pipe. At $p_T \leq 100$ MeV, tracks are so curved, that, if they are in one part of the TPC, they can also enter the other part, and produce there a 2nd, short track (for higher p_T this is impossible). Can you maybe check that? (e.g. number of hits per fitted track should be small).

Soeren

But then I cannot understand why the helix fit seems better...
