Subject: track quality criterion
Posted by Albrecht Gillitzer on Wed, 23 Nov 2011 15:26:12 GMT
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Dear all,

As a benchmark channel for high momentum transfer 2-body reactions in pbar+A I have simulated 15 GeV/c pbar p --> pi+ pi- (no kinematic constraints available), and found that the excitation energy resolution of a fictitious A-1 residual system is very poor (~300 MeV).

I would like to set cuts on the reconstructed track quality in order to gain resolution at the expense of efficiency. Discussion with Tobias has convinced me that the fit chi2 is not a good criterion and that one should use the fit error in the obtained momentum (components) instead.

If I have a TCandidate (in the analysis task) how do I get access to that fit error in the momentum components?

Best regards,
Albrecht