
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 $\text{pbar}+A$ I have simulated $15 \text{ GeV}/c \text{ pbar } p \rightarrow \pi^+ \pi^-$ (no kinematic constraints available), and found that the excitation energy resolution of a fictitious A-1 residual system is very poor ($\sim 300 \text{ MeV}$).

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 χ^2 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
