Subject: Psi analysis as a cross check from donghee kang
Posted by donghee on Wed, 17 Aug 2011 10:37:47 GMT
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Hi Panders,,,,

I would like to show you and to make sure, the psi(3770) benchmark channel is in principle being cross checked.
Here is a brief summary (presentation), which you can get some numbers global acceptance and resolutions of D+, D-, psi, and its products.

General way of psi analysis is based on the MC true PID matching (assuming ideal PID) and it found that TPC and STT show similar performance.
Vertex resolution for D+ and D- are found to be level of 100 micro meter for z and 60 micro meter for x and y position.
Mass resolutions are roughly 10-20 MeV for D mesons with both STT and TPC mode.

Please have a look this note, and welcome any comments and suggestions for further analysis.
Marius is main analyzer of psi(3770) channel, it might be useful to get a confirmation of this analysis from him, whether all results are reasonable or not.

Thank you...
Donghee

File Attachments

1) Psi-tdr-draft-02.pdf, downloaded 696 times