Subject: [FIXED] Real vs. Ideal Tracking - Ghosts?
Posted by Ralf Kliemt on Mon, 08 Apr 2013 08:15:41 GMT
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Hello everybody.

While going through the analysis tools I simulated quickly 1000 events of
Psi(3770) --> D+D- --> K-pi+pi+ K+pi-pi-.

Now at the D reconstruction I find much "dirt" in the mass spectrum. More unsettling is the spiky behavior. To see whats going on I did a MC truth match and tried the ideal Pattaern recognition as well.

The plots are attached below. My ideas so far are that the MC indexing is done by the first hit or something, which would be error prone. Also I think the Pattrern Recognition adds LOTS of ghosts and fakes mostly many in one event.

Cheers Ralf

File Attachments

1) Dplus-raw.pdf, downloaded 506 times
2) Dplus-raw-simple.pdf, downloaded 654 times
3) Dplus-truth.pdf, downloaded 531 times
4) Dplus-truth-simple.pdf, downloaded 513 times