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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  $\Psi(3770) \rightarrow D+D^- \rightarrow K\pi+\pi+ K\pi-\pi-$ .

Now at the D reconstruction I find much "dirt" in the mass spectrum. More unsettling is the spiky behavior. To see what's going on I did a MC truth match and tried the ideal Pattern 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 Pattern Recognition adds LOTS of ghosts and fakes mostly many in one event.

Cheers Ralf

### File Attachments

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- 1) [Dplus-raw.pdf](#), downloaded 290 times
  - 2) [Dplus-raw-simple.pdf](#), downloaded 289 times
  - 3) [Dplus-truth.pdf](#), downloaded 316 times
  - 4) [Dplus-truth-simple.pdf](#), downloaded 297 times
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