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Subject:  $\pi^0$  in fast simulation

Posted by [Ronald Kunne](#) on Fri, 18 Apr 2014 15:00:26 GMT

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Hi there,

I compared  $p\bar{p} \rightarrow e^+ e^- \pi^0$  both in Full and Fast simulation.

Conclusions: the lack of bremsstrahlung and pair production makes electron and  $\pi^0$  resolution a bit too good in my opinion. The problem is that the Full simulation produces a lot of background in the EMC that spoils the resolution and reconstruction of the particles.

See the uploaded pdf file.

Friendly greetings,  
Ronald Kunne

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#### File Attachments

1) [piz140417.pdf](#), downloaded 416 times

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