Subject: Re: Multipion with Event Mixing
Posted by Elisa Fioravanti on Mon, 12 Dec 2011 09:45:18 GMT
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Hello everybody,

here you can find the results also of pi+pi-pi+pi- with event mixing.
I reported both pi+pi- and 2(pi+pi-) channel.

As you can see in slide number 11, for the invariant mass of the four pions, the background level is huge, and so I think that one solution could be to fit the distribution with a gaussian function plus a polynomial function in order to take into account the background level.
In this way I calculated the efficiency as number of signal events/ number of generated events, and the result is 13% against 30% without event mixing.

For the two pions channel we have a drop in efficiency from 69% to 60%.

Elisa

File Attachments

1) Multipion12december.pdf, downloaded 473 times