Subject: Re: MisID vs Impurity

Posted by Malgorzata Gumberidze on Sat, 24 Nov 2012 20:29:36 GMT

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## hello

please find here plot which is showing multiplicity of reconstructed tracks for one true MC electron track :

and here are some numbers (number of primary electrons=972500):

mult ==0: 83628 mult ==1: 863344 mult ==2: 24060 mult ==3: 1116 mult ==4: 239 mult ==5: 64

and here is a plot for negative pions

and numbers (number of primary pions = 986500):

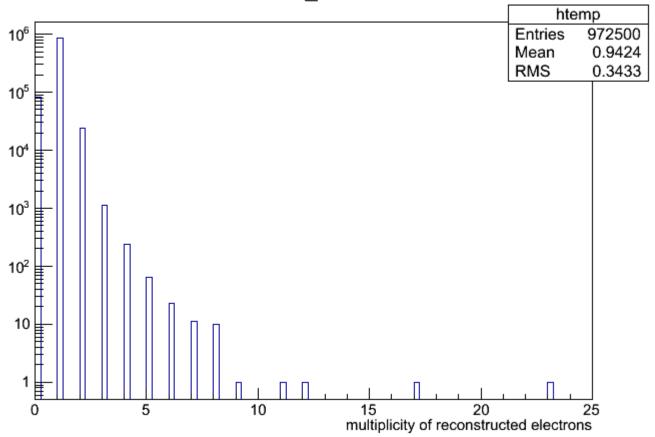
mult ==0: 110975 mult ==1: 854022 mult ==2: 20824 mult ==3: 550 mult ==4: 90 mult ==5: 29 mult ==6: 5

3% of the events has more than 1 particles reconstructed per MC track in both cases for electrons and pions. So in this way i would say that selection of one good track per MC true one does not introduce big bias.

## File Attachments

1) mult ele.gif, downloaded 904 times

mult\_cand



## 2) mult\_pions.gif, downloaded 790 times

