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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
```

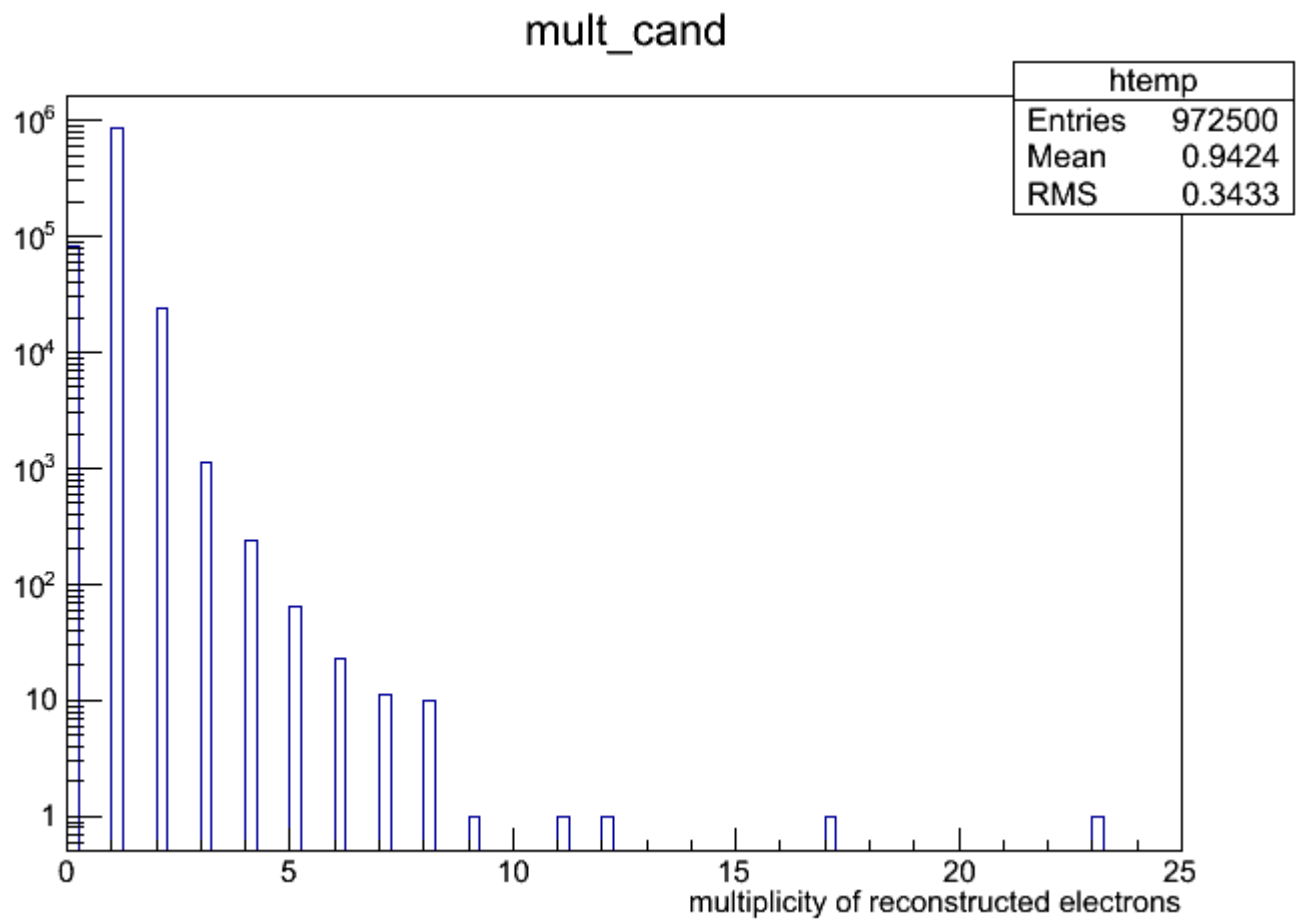
3% of the events has more than 1 particles reconstructed per MC track in both cases for electrons and pions. So in this way i would say that selection of one good track per MC true one does not introduce big bias.

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### File Attachments

1) [mult\\_ele.gif](#), downloaded 791 times

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2) [mult\\_pions.gif](#), downloaded 672 times

