Subject: PID selection
Posted by Jennifer Pütz on Fri, 10 Nov 2017 10:17:12 GMT
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Hi all,

I am working on a comparison for ideal and realistic PID with a small sample of DPM events. I observed that the reconstruction efficiencies are the same for ideal PID and the PID selection criterion „ALL" (see attached file), which is strange to me. I also checked the other criteria and they seem to work fine.

Has anyone of you an idea what causes this equality? If I am not wrong in my understanding of the selection criteria, „ALL" and ideal should not be equal, right?

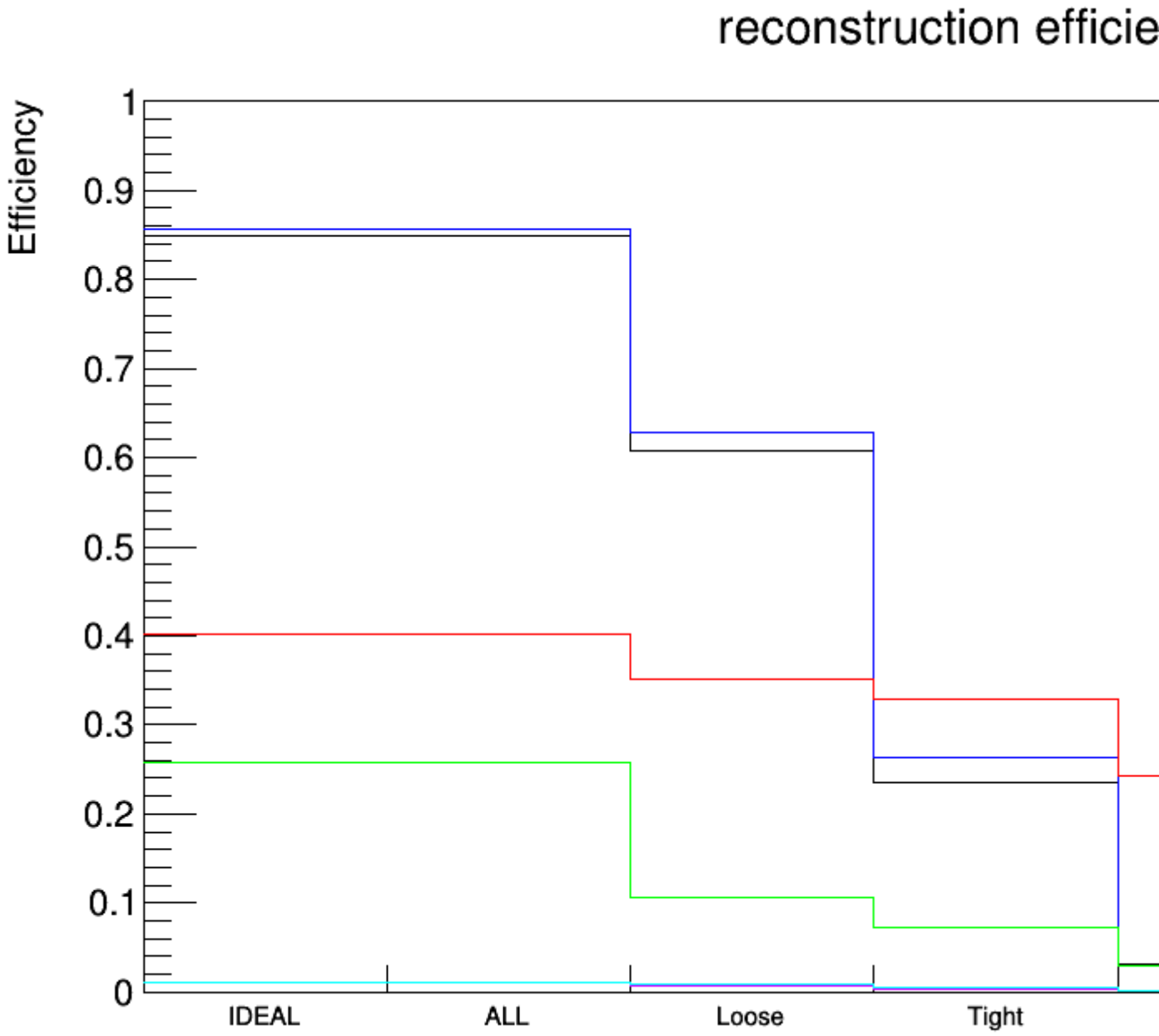
Cheers
Jenny

PS.: I use on my machine:

FairRoot: v17-03
FairSoft: may16p1
PandaRoot trunk rev.: 30202

File Attachments

1) comparison_PID_FS.png, downloaded 1207 times



Subject: Re: PID selection
Posted by Ralf Kliemt on Fri, 10 Nov 2017 10:57:36 GMT
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Hi Jennifer,

Ideal only selects the ideal PID values. I.e. the right particle will have values of "1" and the rest "0". You would have to specify at least "Loose", too in order (to cut above 0.2). The default is "VeryLoose" which ist no cut at all.

Cheers!
  Ralf

Subject: Re: PID selection
Posted by Jennifer Pütz on Tue, 14 Nov 2017 09:30:37 GMT
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Hi Ralf,

thank you for your answer. Up to know, I though the selection criteria are not affecting the selection for ideal PID. But this could of course not be true for "ALL".

Cheers,

Jenny