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Subject: [CLOSED] Wrong particle in FillList  
Posted by [Lu Cao](#) on Tue, 30 Jul 2013 11:58:36 GMT  
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Hi all,

In the analysis for the decay  $p_b p \rightarrow D_s^-(K K \pi)$   $D_s^+$  ( $e^+ \nu_e \eta(3\pi)$ ), I use the following PID algorithm to fill the candidates list as

```
theAnalysis->FillList(pipbase, "PionLossePlus");  
theAnalysis->FillList(pimbase, "PionLosseMinus");  
theAnalysis->FillList(kapbase, "KaonLossePlus");  
theAnalysis->FillList(kambase, "KaonLosseMinus");  
theAnalysis->FillList(rawgambase, "Neutral");
```

then, I check the PDG numbers of candidates in each list. In every event, some particles with wrong PDG are found.

```
Found wrong piplus in pipbase list: evt = 1 j = 1 PDGCode = -11  
Found wrong piplus in pipbase list: evt = 1 j = 2 PDGCode = 11  
Found wrong piplus in pipbase list: evt = 1 j = 3 PDGCode = 321  
Found wrong piplus in pipbase list: evt = 1 j = 4 PDGCode = -11  
-----
```

```
Found wrong piminus in pimbase list: evt = 1 j = 1 PDGCode = -11  
-----
```

```
Found wrong gamma in gambase list: evt = 1 j = 1 PDGCode = 2112  
Found wrong gamma in gambase list: evt = 1 j = 2 PDGCode = 2112  
Found wrong gamma in gambase list: evt = 1 j = 3 PDGCode = -11  
Found wrong gamma in gambase list: evt = 1 j = 6 PDGCode = -211  
Found wrong gamma in gambase list: evt = 1 j = 7 PDGCode = 11  
Found wrong gamma in gambase list: evt = 1 j = 10 PDGCode = 2112  
Found wrong gamma in gambase list: evt = 1 j = 11 PDGCode = 2112  
Found wrong gamma in gambase list: evt = 1 j = 12 PDGCode = -11  
-----
```

```
Found wrong kaminus in kambase list: evt = 1 j = 0 PDGCode = -211  
Found wrong kaminus in kambase list: evt = 1 j = 1 PDGCode = -11  
-----
```

```
Found wrong kaplus in kapbase list: evt = 1 j = 0 PDGCode = 211  
Found wrong kaplus in kapbase list: evt = 1 j = 1 PDGCode = -11  
Found wrong kaplus in kapbase list: evt = 1 j = 2 PDGCode = 11  
Found wrong kaplus in kapbase list: evt = 1 j = 4 PDGCode = -11  
-----
```

This seems not reasonable. I'm using the version #18621.

Best regards,  
Lu

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