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

Hi all,

In the analysis for the decay pbp->Ds-(KKpi) Ds+ (e+ nu_e eta(3pi)), 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