Subject: Re: Vertex Fitter in Fast simulation
Posted by donghee on Tue, 01 Apr 2014 09:58:29 GMT
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We have few choice including your suggestion.

1. take a reference track, then get position.

2. Access poca in RhoTupleQA ntuple, which is already stored as "prefix"+pocax(y,z,qa) in your ntuple.

3. Re-do poca by hand as like this where dp[j] is your candidate list.

```
PndVtxPoca POCAvtx;
      TVector3 POCAvertex(0,0,0);
double POCA=-10000;
      double POCAdist=-10000;
      POCA = POCAvtx.GetPocaVtx(POCAvertex,dp[j]);

double poca_x = POCAvertex.);
double poca_y = POCAvertex.Y();
double poca_z = POCAvertex.Z();
```

I think that this way one may avoid ambiguity for choice of reference track.
But disadvantage is that POCA approach cannot be used with neutral composite as like pion0 k_s or Lambda0, unfortunately.

Best wished,
Donghee