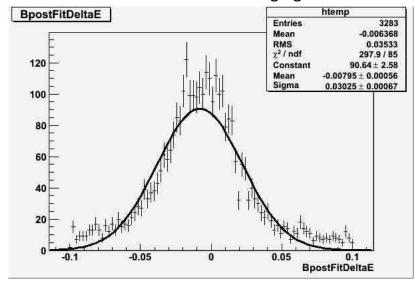
Some checks in FastSim V0.0.3

M. Rama

fast simulation meeting, 29 April 2009

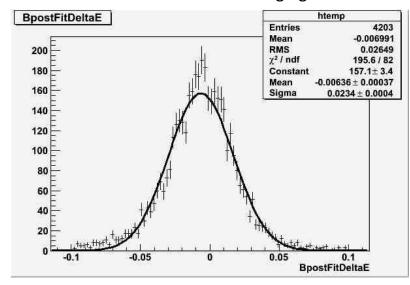
SuperB detector configuration

FastSim with hit merging



MC truth is not required

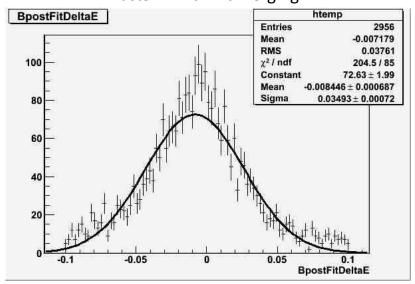
FastSim without hit merging



MC truth is not required

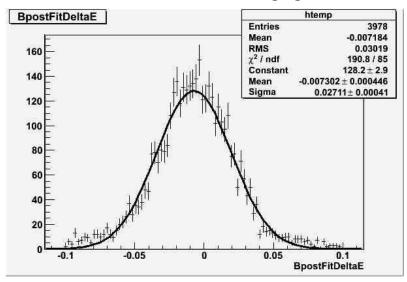
Babar detector configuration

FastSim with hit merging



MC truth is not required

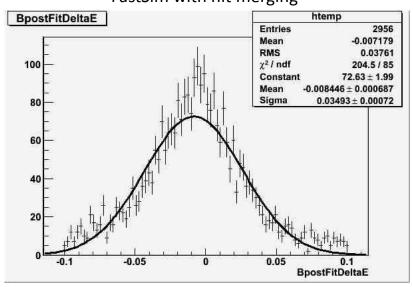
FastSim without hit merging



MC truth is not required

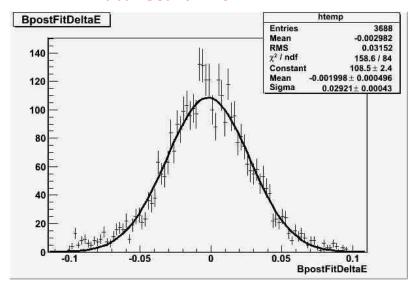
Babar detector configuration

FastSim with hit merging



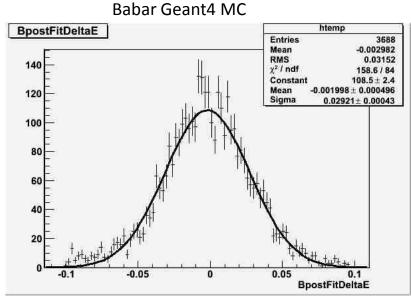
MC truth is not required

Babar Geant4 MC

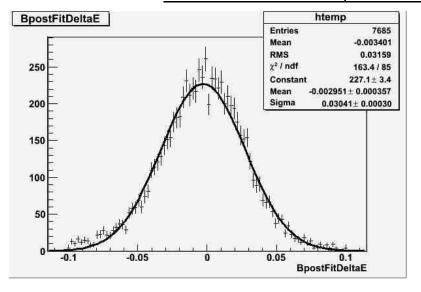


MC truth is not required

Babar detector configuration



Babar Geant4 MC where the other B decays to nothing



MC truth is not required

MC truth is not required

• This comparison seems to indicate that in Babar Geant 4 MC the overlap with other tracks has a small effect for $B \rightarrow \pi\pi$ events

conclusion

 It seems that some tuning is needed to the hit merging algorithm to reduce its effect