Belle Data/MC update

All experiments of Belle 1.0 M dedicated signal MC

15 Jan. 2024

Cuts in the reconstruction program

MVA photon cuts

• $1.6 < m_{hadROE} < 2.4 \text{ GeV}$

Signal side cuts (root level)

All applied cuts are mentioned in the title of the plots.

Last meeting comments

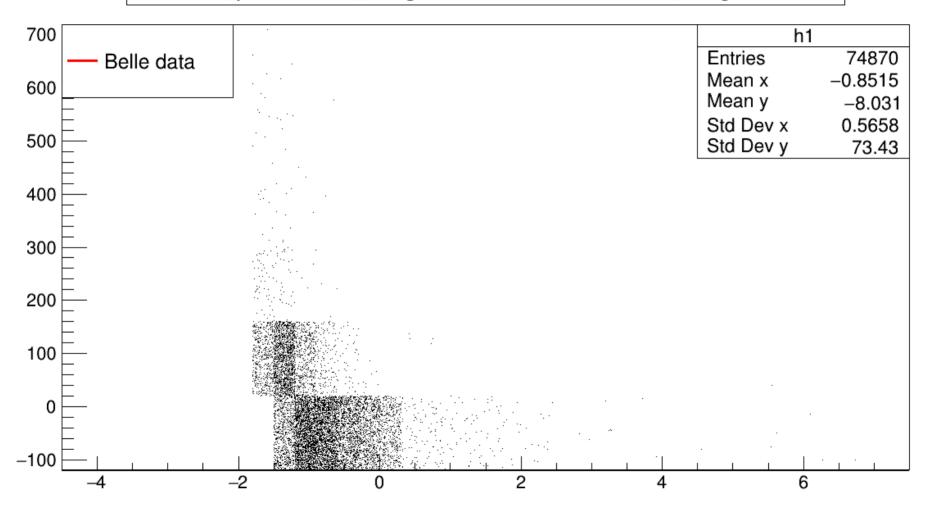
Sinφ Vs M_{bc} ,Sinφ Vs ΔE_B_{sig} ,Sinφ Vs m(J/Psi) plots.

• Direct cosine angle from B_{sig} momentum to B_{tag} momentum and the sum of best cosine angles for both Belle Data and MC.

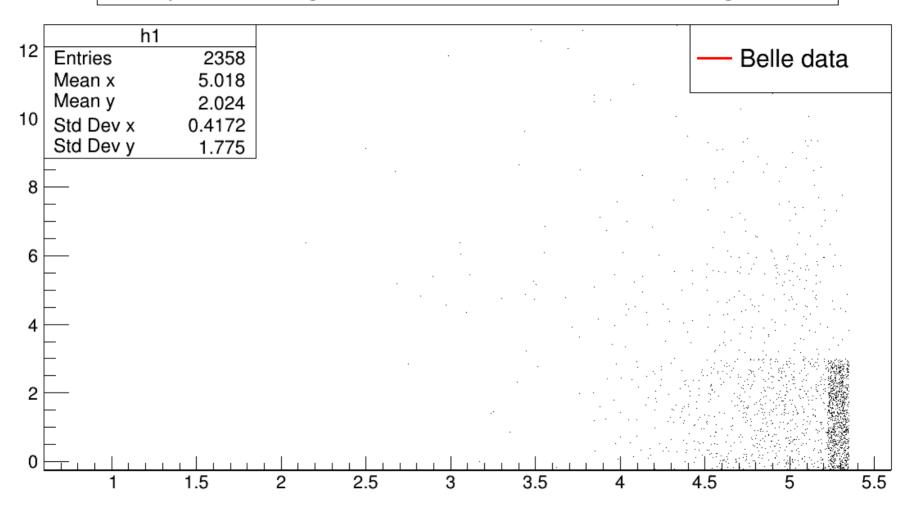
Number of photons for both Belle Data and MC.

Cuts change on m_hadROE on reconstruction level. (Not done yet)

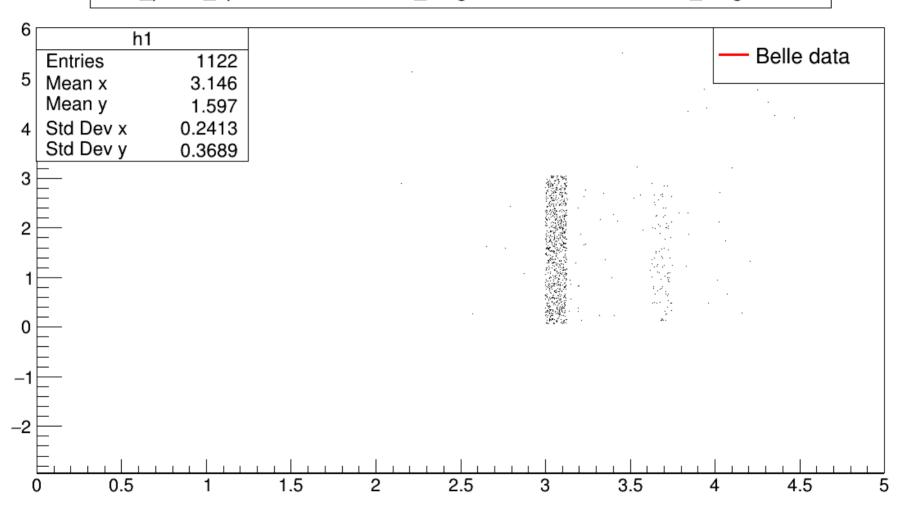
sin_phi:deltaE_Bsig with rank 1, and Mbc_Bsig>5.2

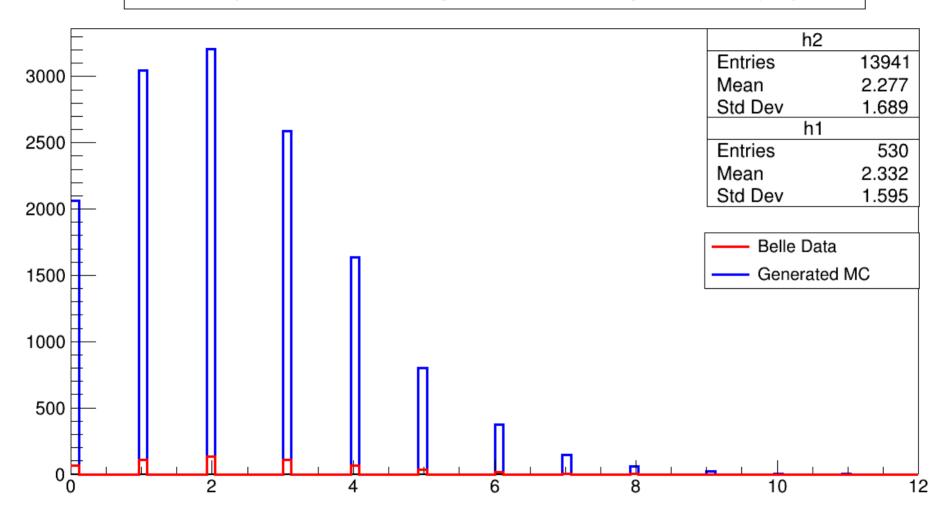


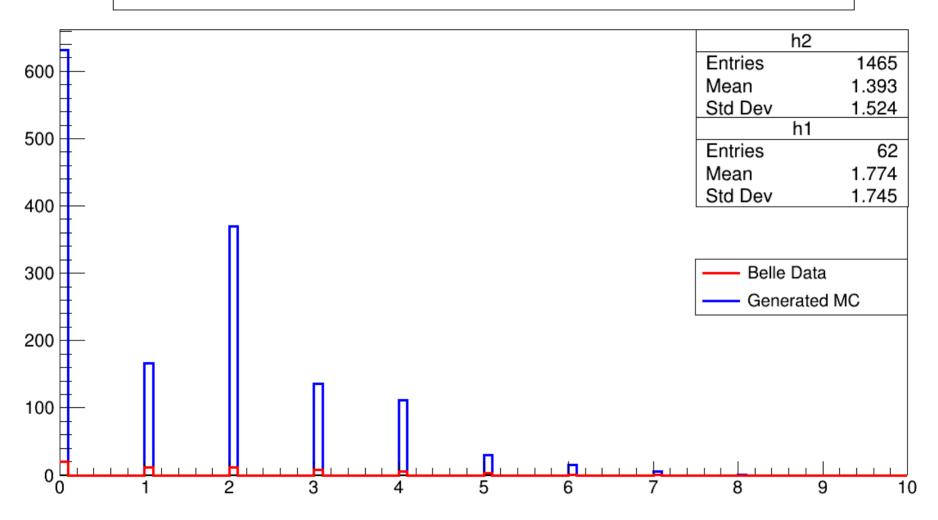
sin_phi:Mbc_Bsig with rank 1, and -0.050<deltaE_Bsig<0.050



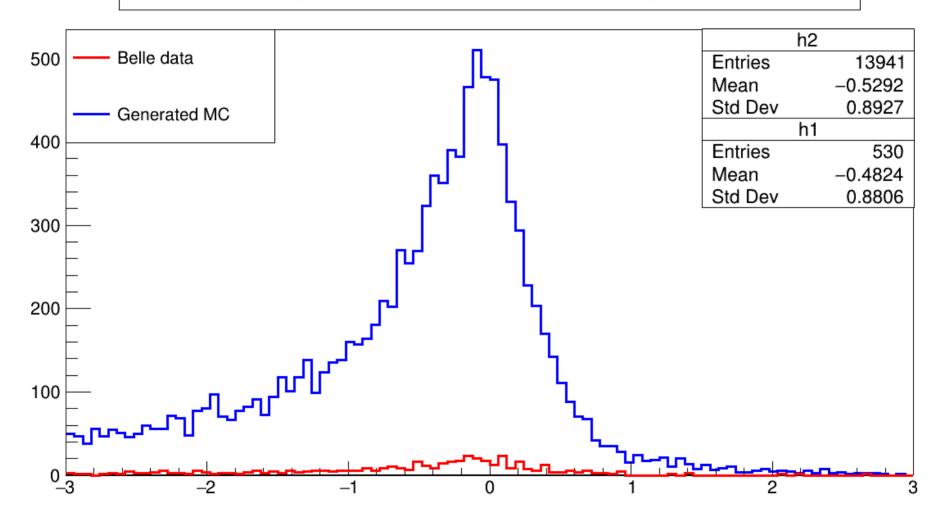
sin_phi:m_Jpsi with rank 1, Mbc_Bsig>5.2 and -0.050<deltaE_Bsig<0.050

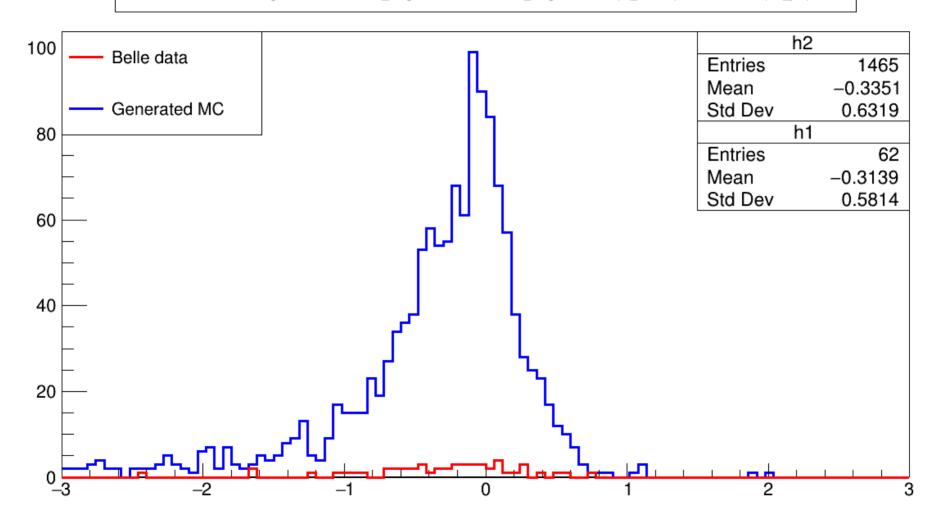






Best sum of cosine angles with rank 1,Mbc_Bsig>5.27,-0.050<deltaE_Bsig<0.050 and abs(sin_phi)<1





Cos(PBsig,PBtag) with rank 1,Mbc_Bsig>5.27,-0.050<deltaE_Bsig<0.050 and abs(sin_phi)<1

