Belle data update

All experiments of Belle

04 Jan. 2023

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

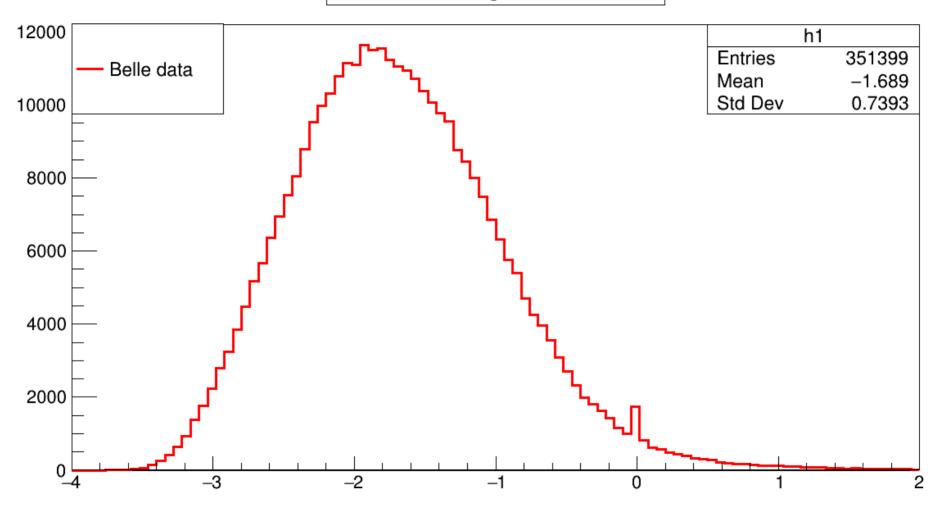
• M_{bc} and ΔE_B_{sig} plots.

• m_Jpsi with M_{bc} and ΔE_B_{sig} cuts and no cuts on tag side.

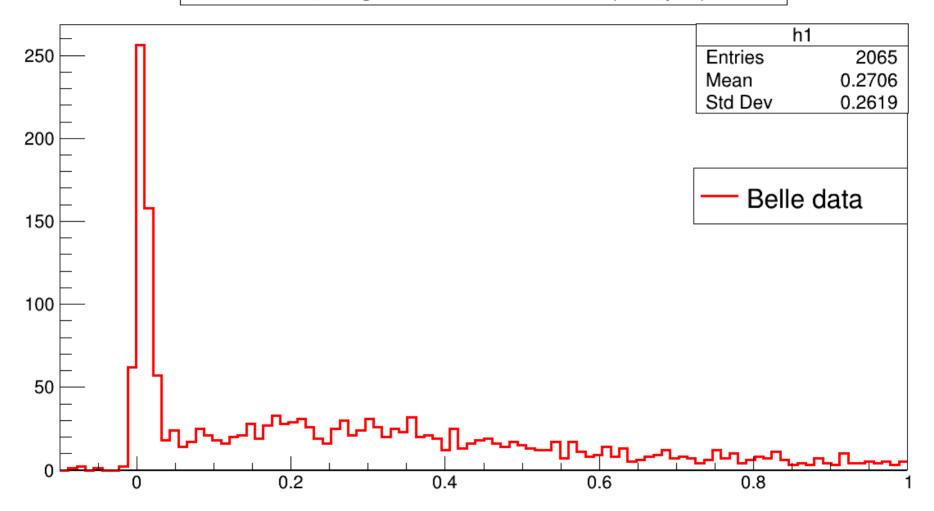
SinΦ calculation with reco. Jpsi mass and PDG Jpsi mass.

• Number of photons distribution with Mbc and ΔE_B_{sig} cuts.

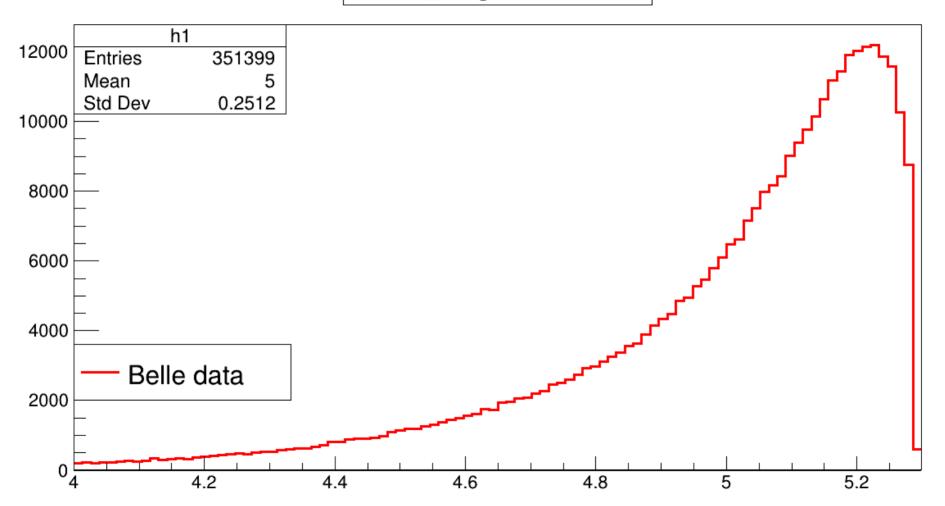
deltaE_Bsig with rank 1



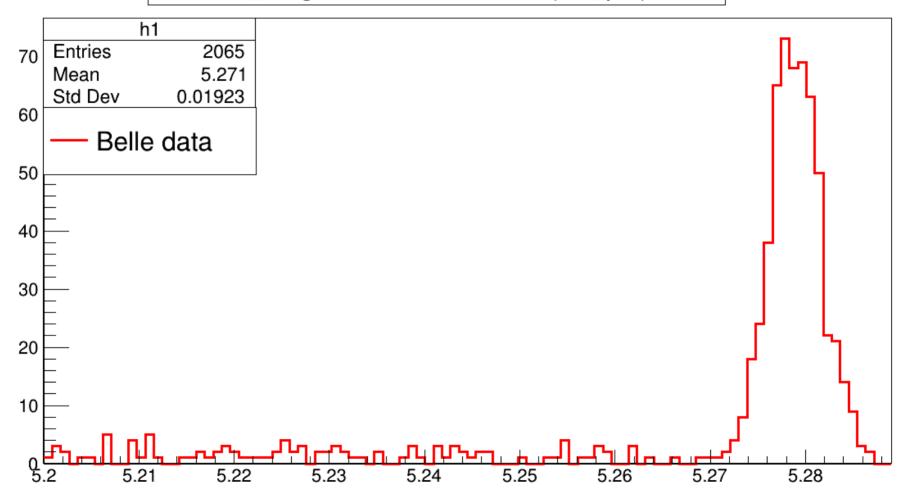
deltaE_Bsig with rank 1 and abs(sin_phi)<1



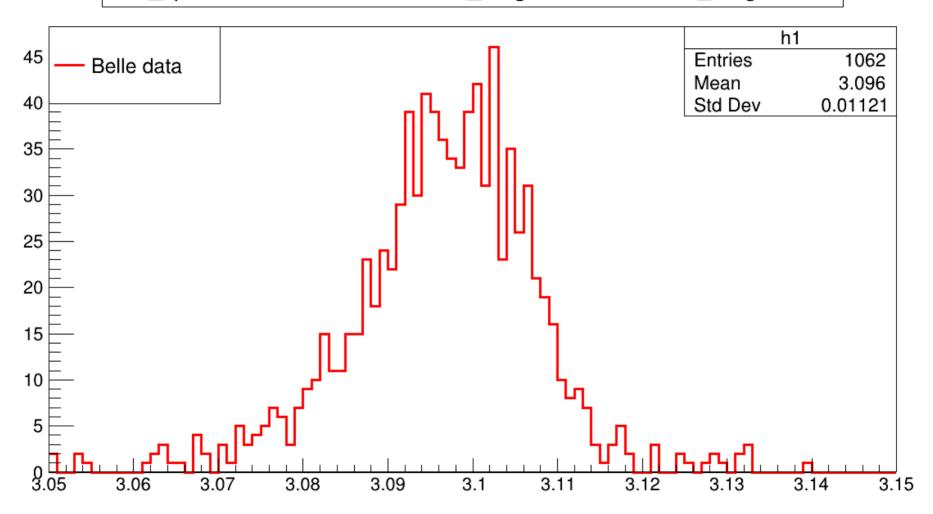
Mbc_Bsig with rank 1



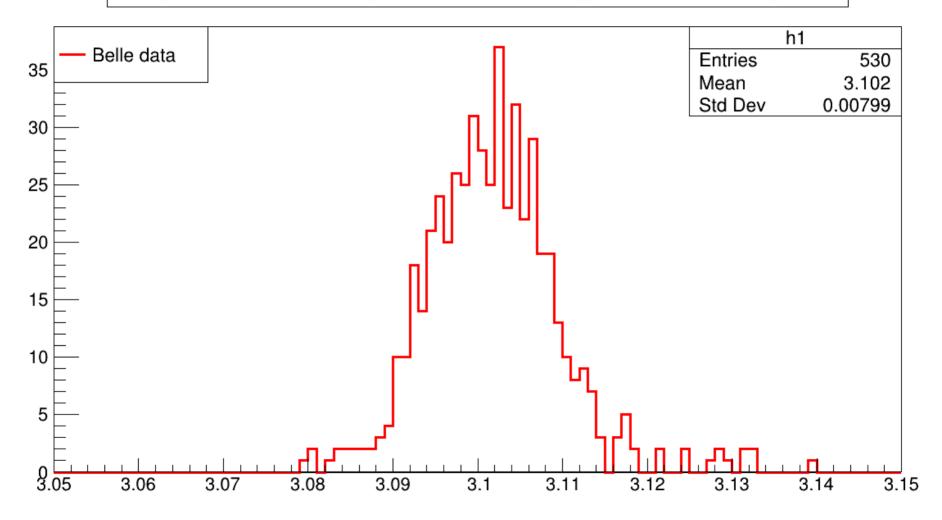




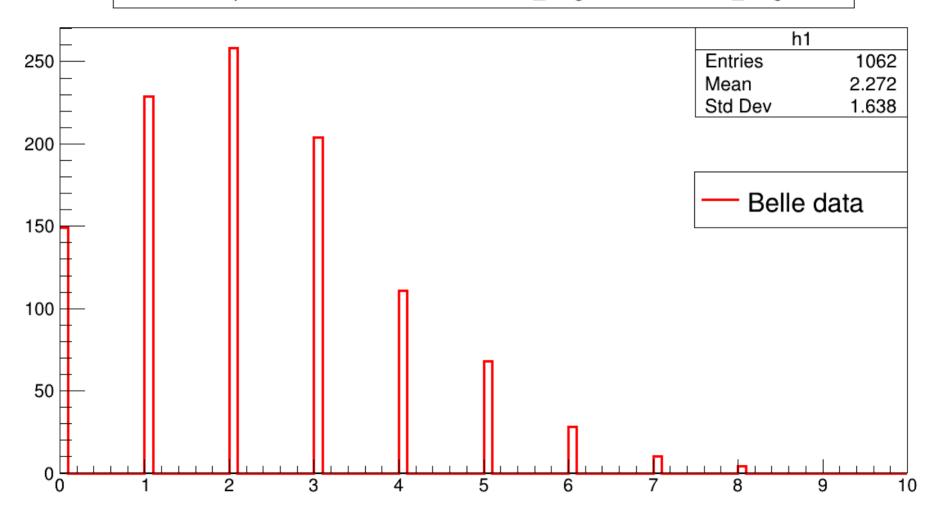
m_Jpsi with rank 1,-0.15<deltaE_Bsig<0.050 and Mbc_Bsig>5.27

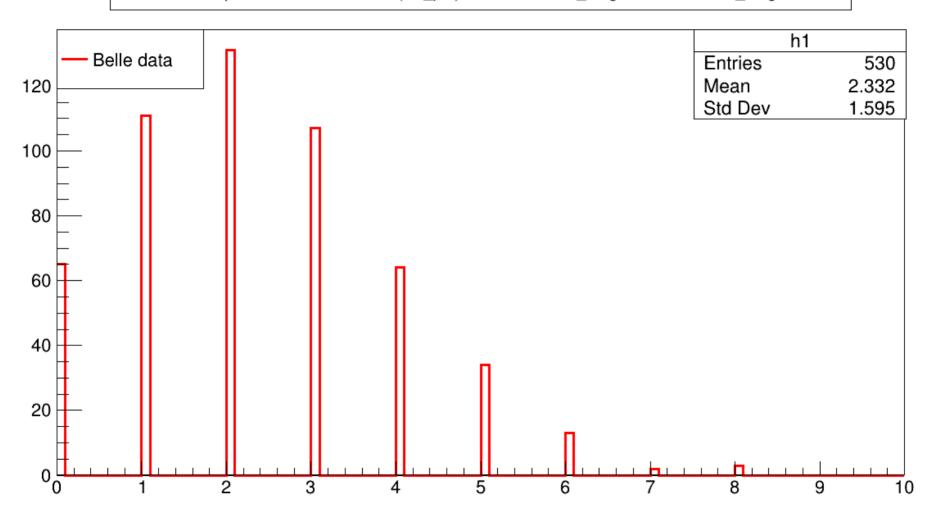


m_Jpsi with rank 1,abs(sin_phi)<1,-0.15<deltaE_Bsig<0.050 and Mbc_Bsig>5.27

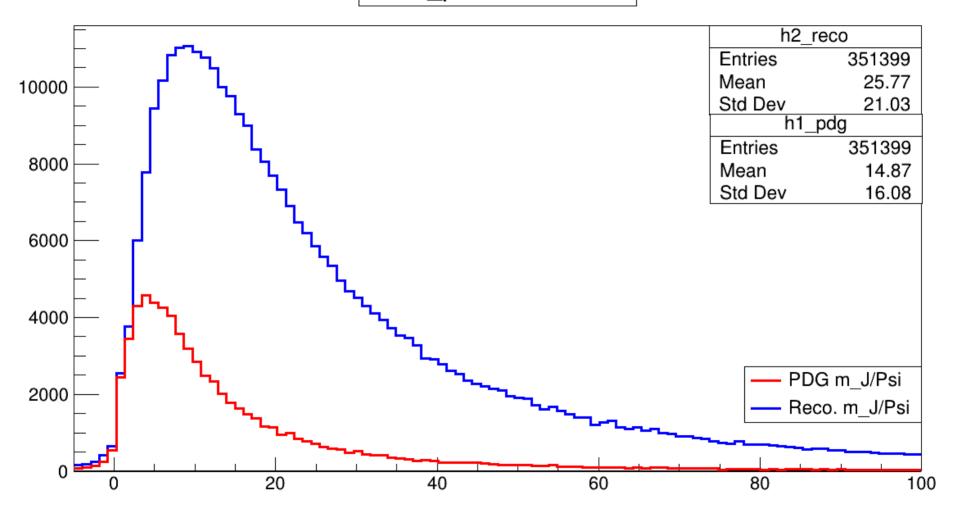


Number of photons with rank 1,-0.15<deltaE_Bsig<0.050 and Mbc_Bsig>5.27

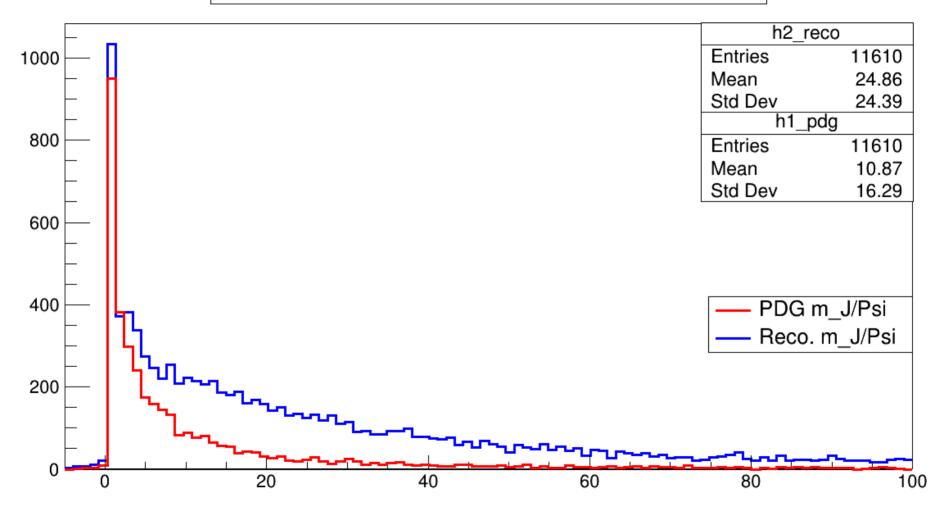




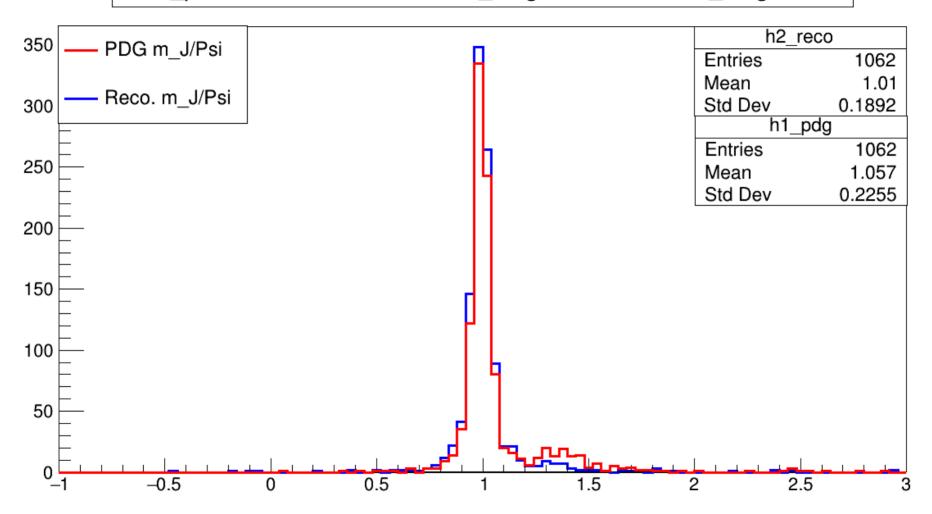
Sin_phi with rank 1



Sin_phi with rank 1 and Mbc_Bsig>5.27



Sin_phi with rank 1,-0.15<deltaE_Bsig<0.050 and Mbc_Bsig>5.27



Backup

Mbc_Bsig with rank 1 and abs(sin_phi)<1

