

2D Plots update

Complete Belle data set

$$B^+ \rightarrow \text{Psi}(2S) K^+$$

$$\text{Psi}(2S) \rightarrow \mu^+ \mu^-$$

18 April 2024

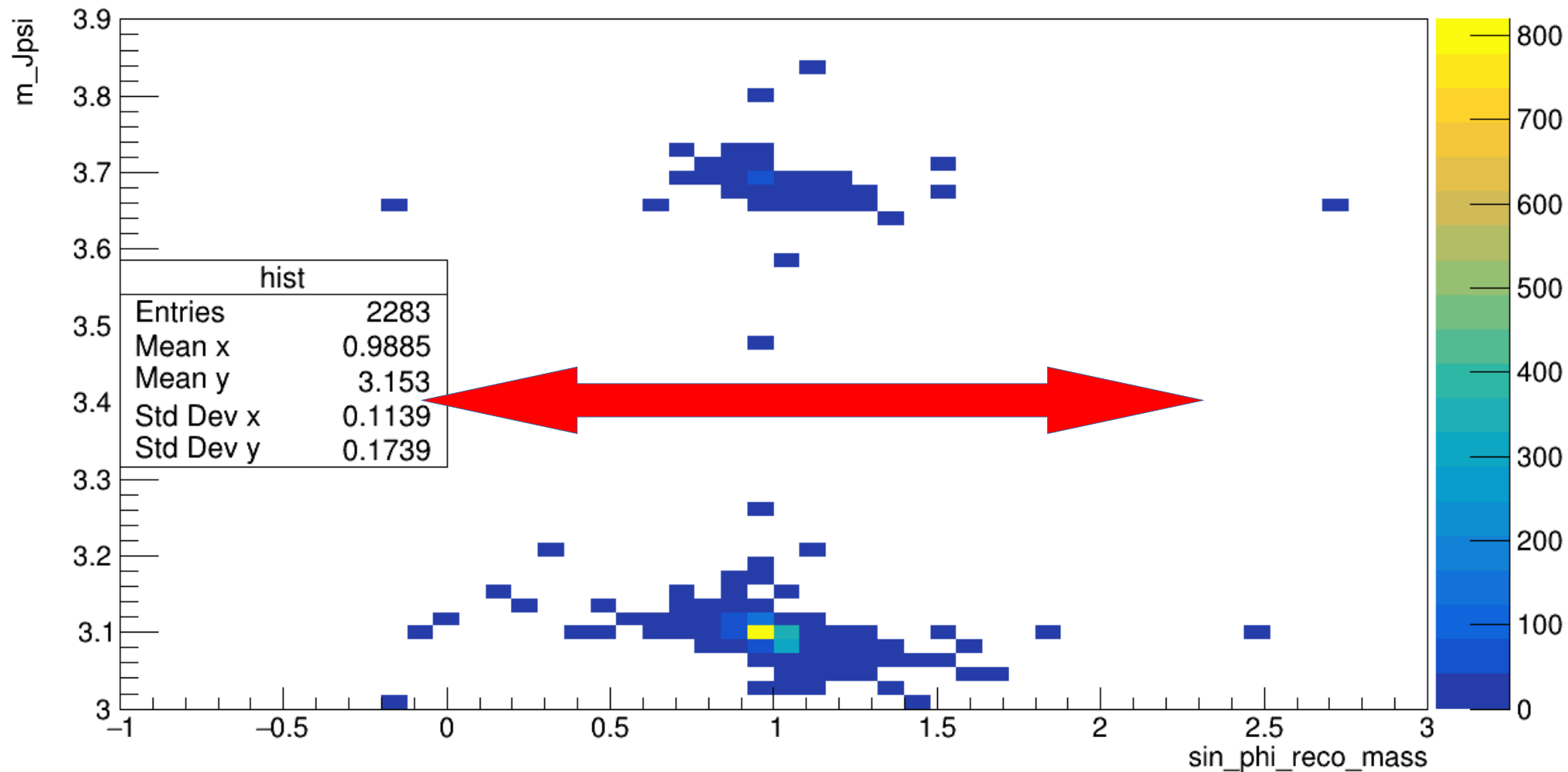
Cuts in the reconstruction program

- MVA photon cuts.
- $1.3 < m_{\text{hadROE}} < 5.3 \text{ GeV}$

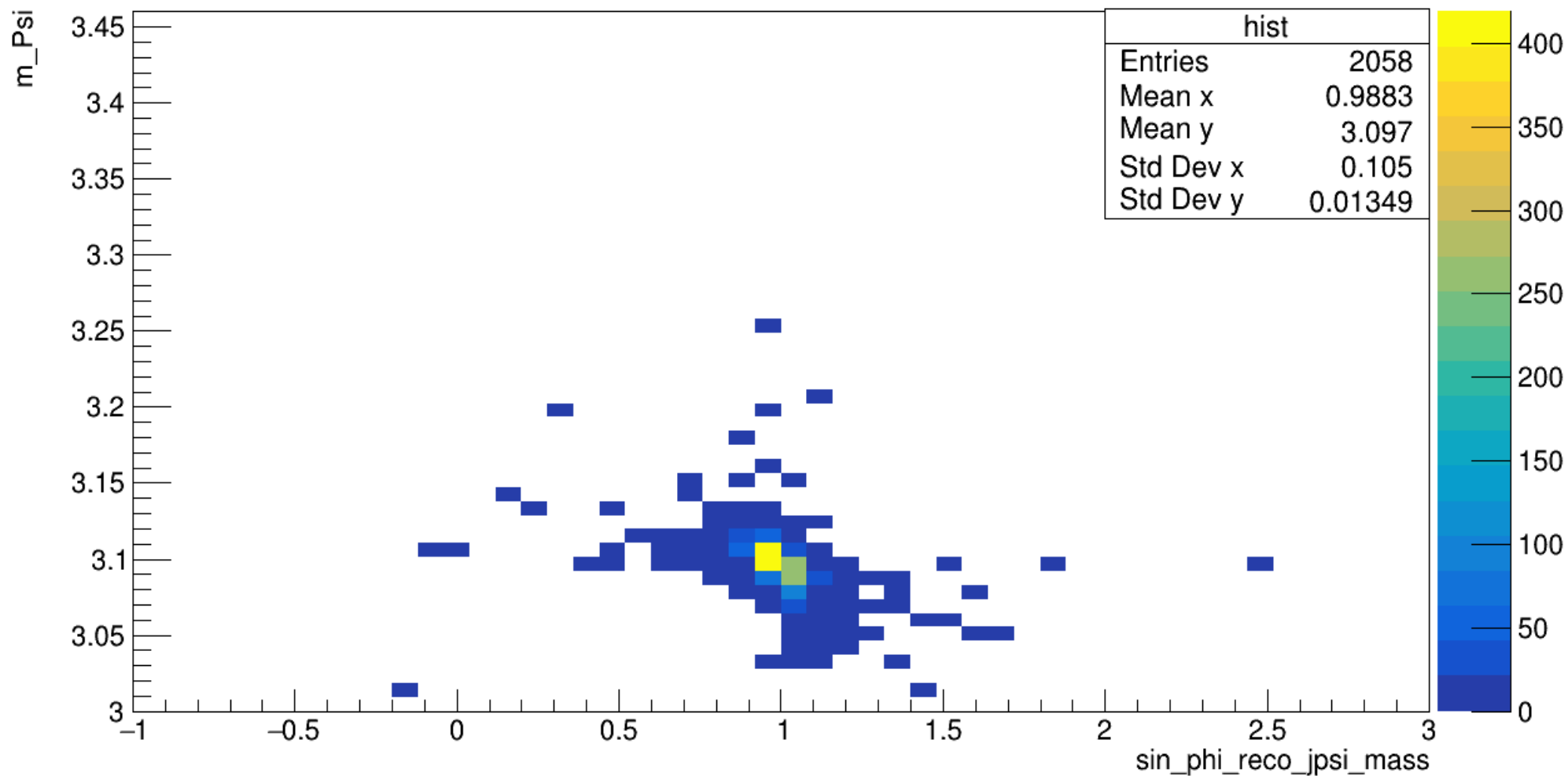
Root level cuts

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

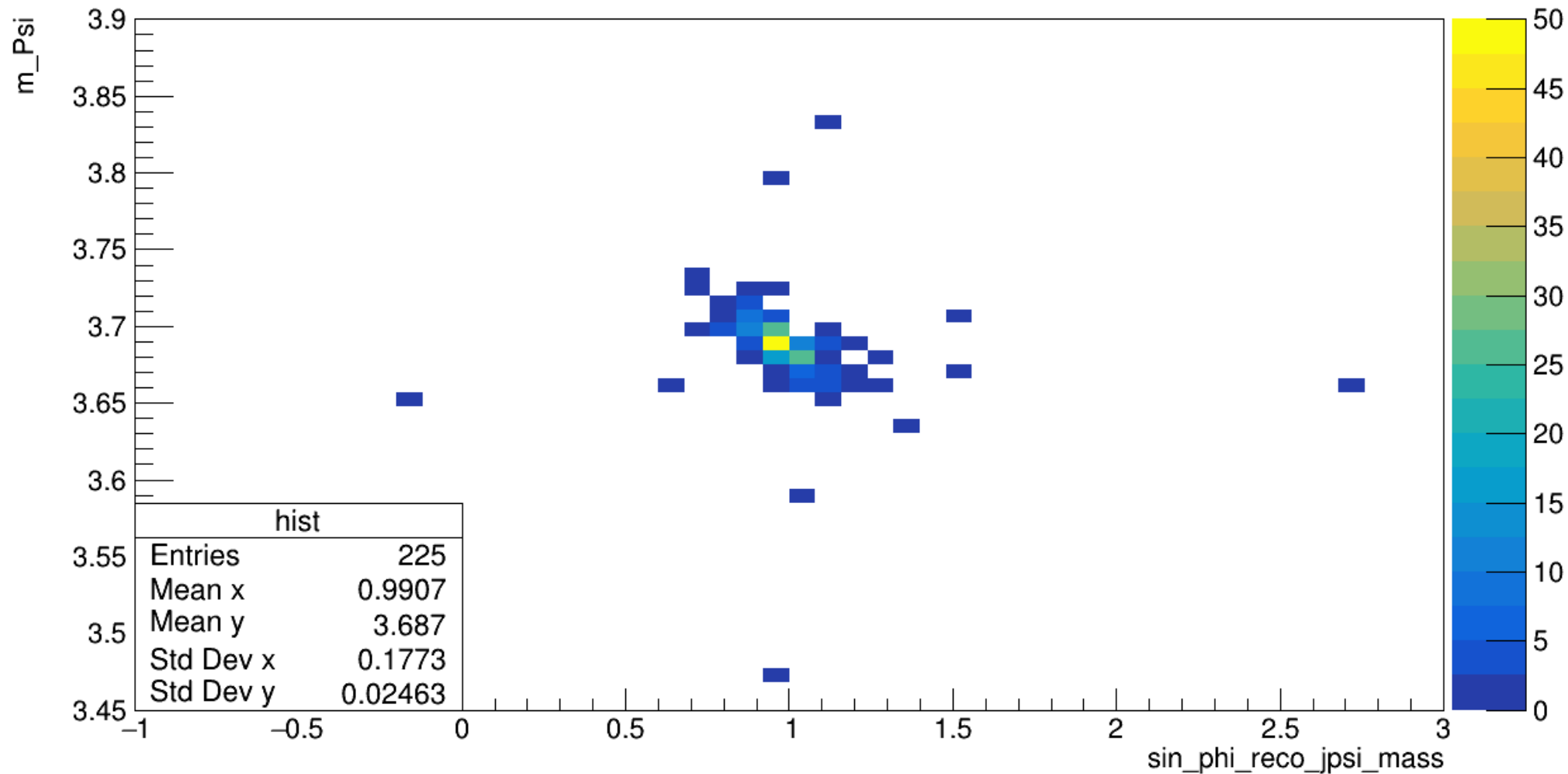
m_Psi(2S):sin_phi (reco. mass) with Rank 1 and Mbc_Bsig > 5.27 and -0.050 < deltaE < 0.050



m_Psi:sin_phi_reco_psi_mass with Rank 1, $m(\Psi) < 3.45$, $-0.050 < \Delta E < 0.050$ and $Mbc_Bsig > 5.27$



m_Psi:sin_phi_reco_psi_mass with Rank 1, $m(\Psi) > 3.45$, $-0.050 < \Delta E < 0.050$ and $M_{bc_Bsig} > 5.27$



Back up

m_Psi(2S):sin_phi (PDG mass) with Rank 1 and Mbc_Bsig > 5.27 and -0.050 < deltaE < 0.050

