

2D Plots

Complete Belle data set

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

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

17 April 2024

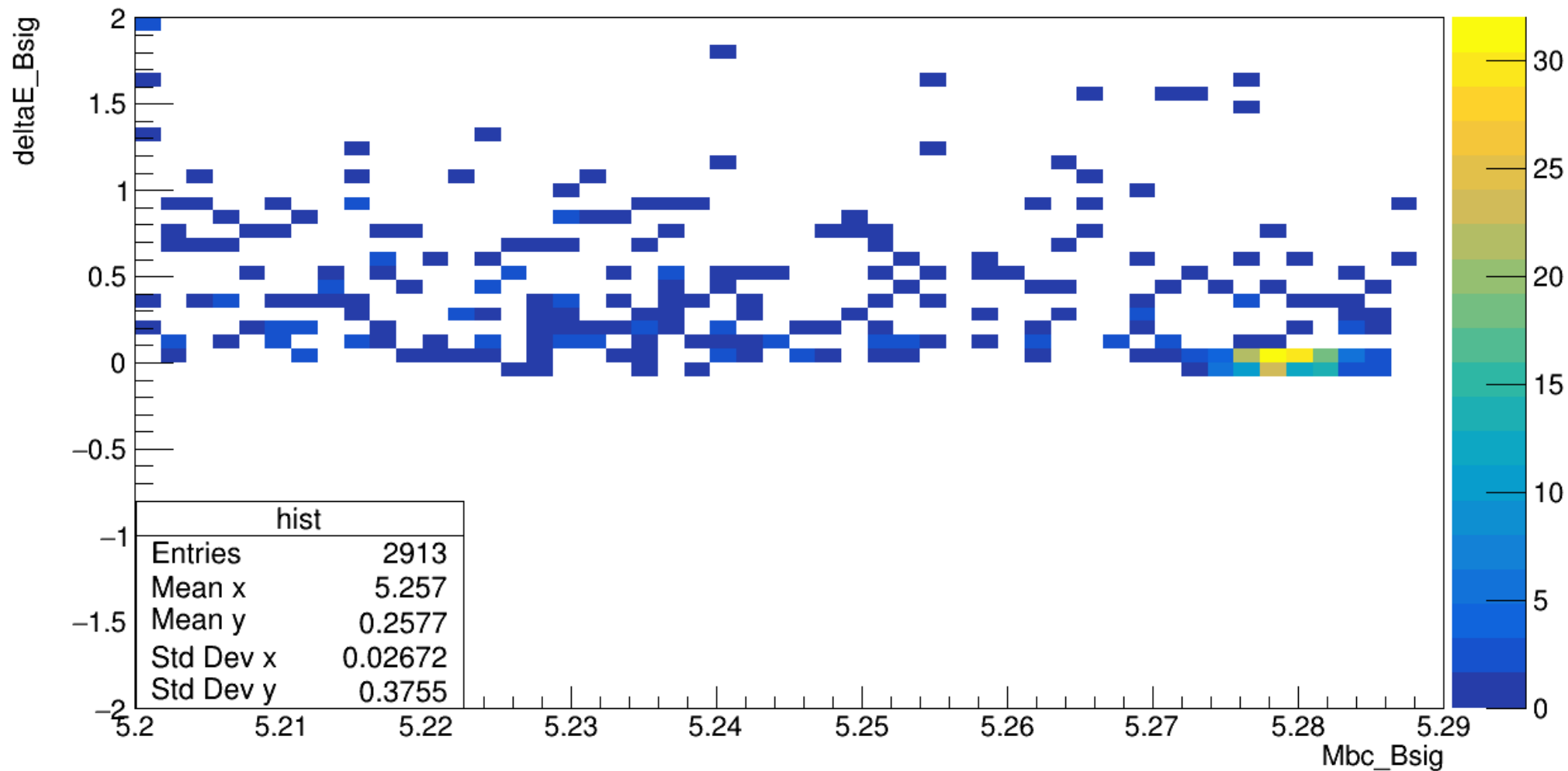
Cuts in the reconstruction program

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

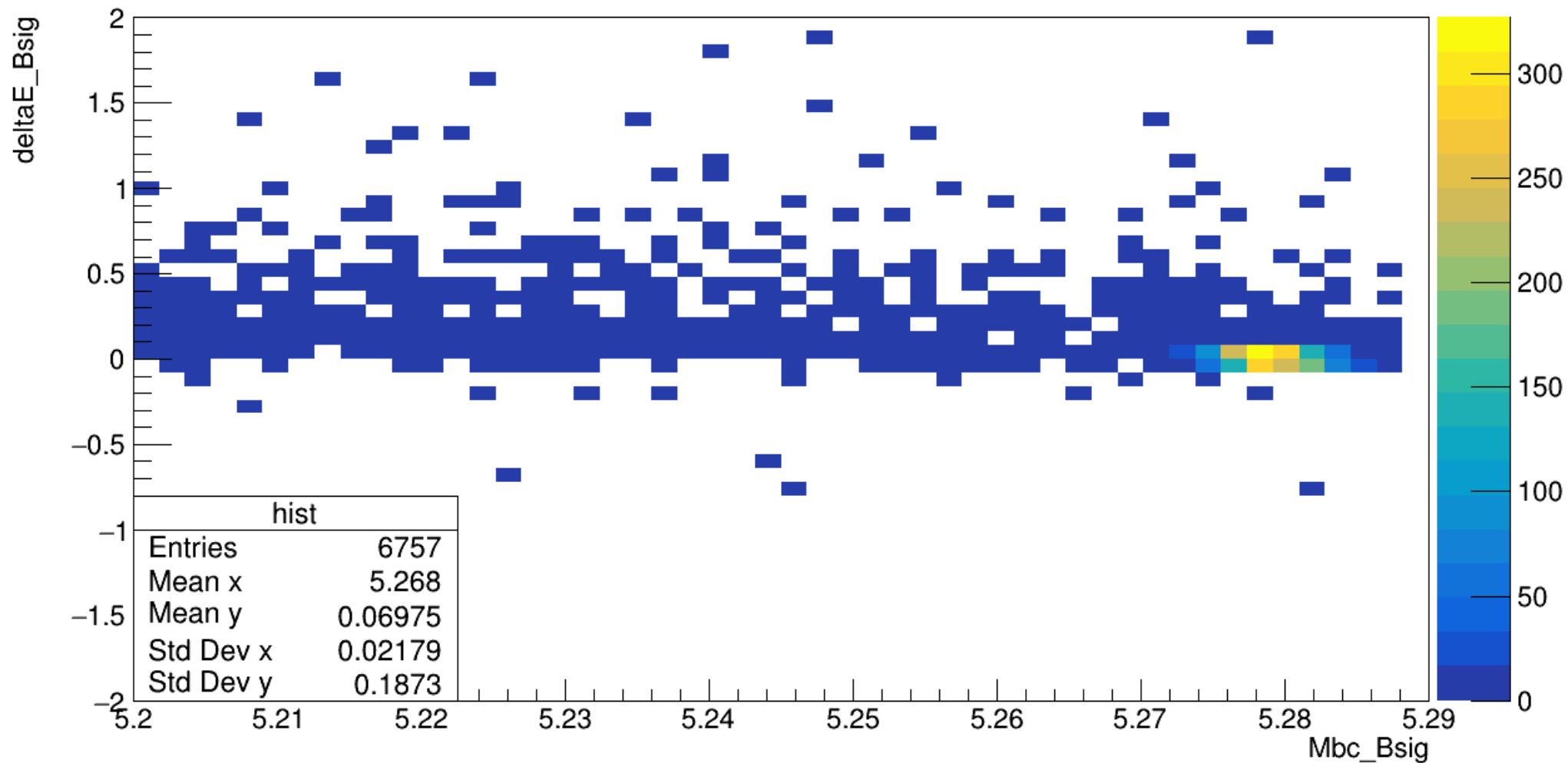
Root level cuts

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

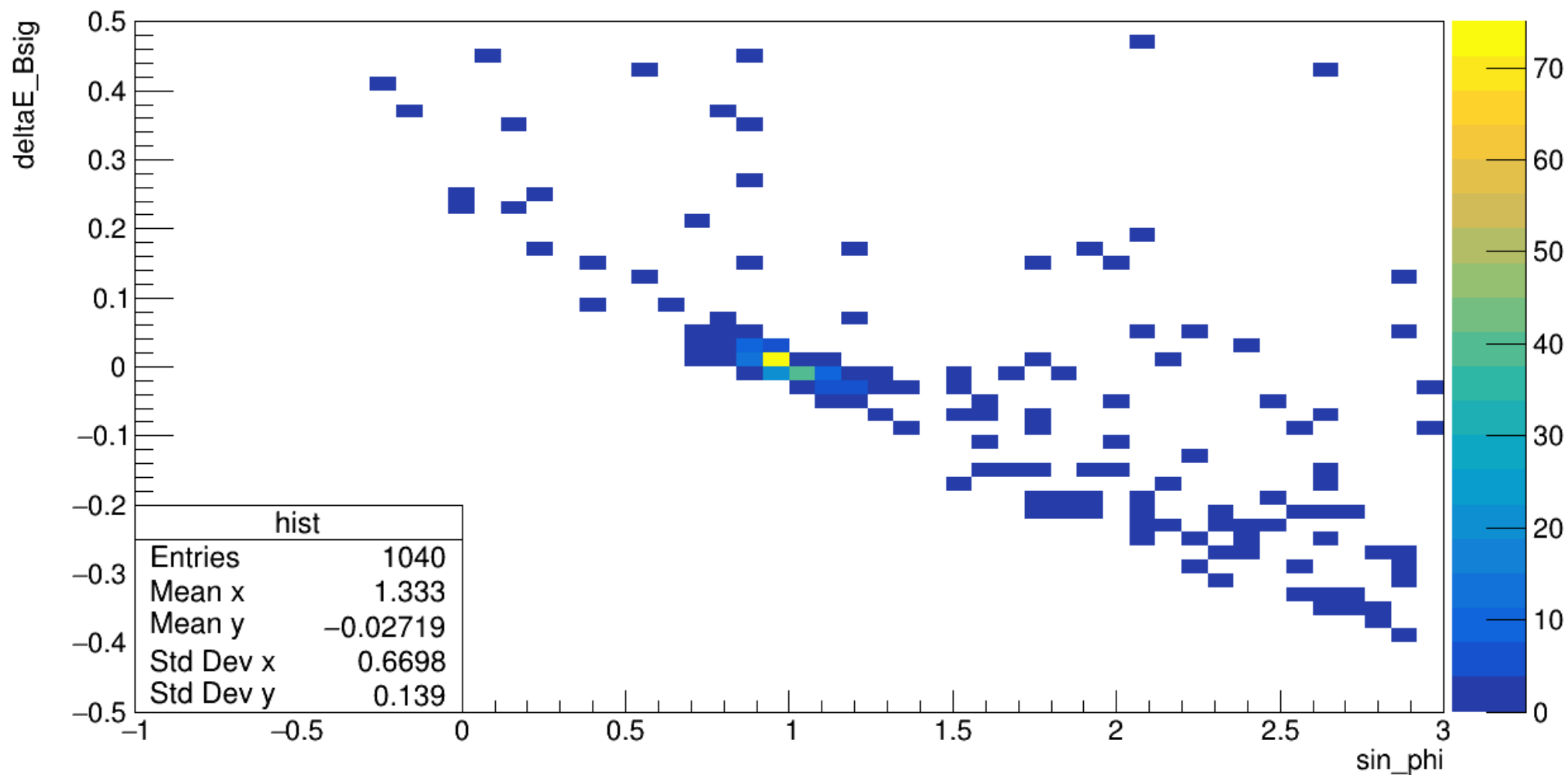
Mbc_Bsig:deltaE_Bsig with Rank 1 and abs(sin_phi_PDG_mass) < 1.1



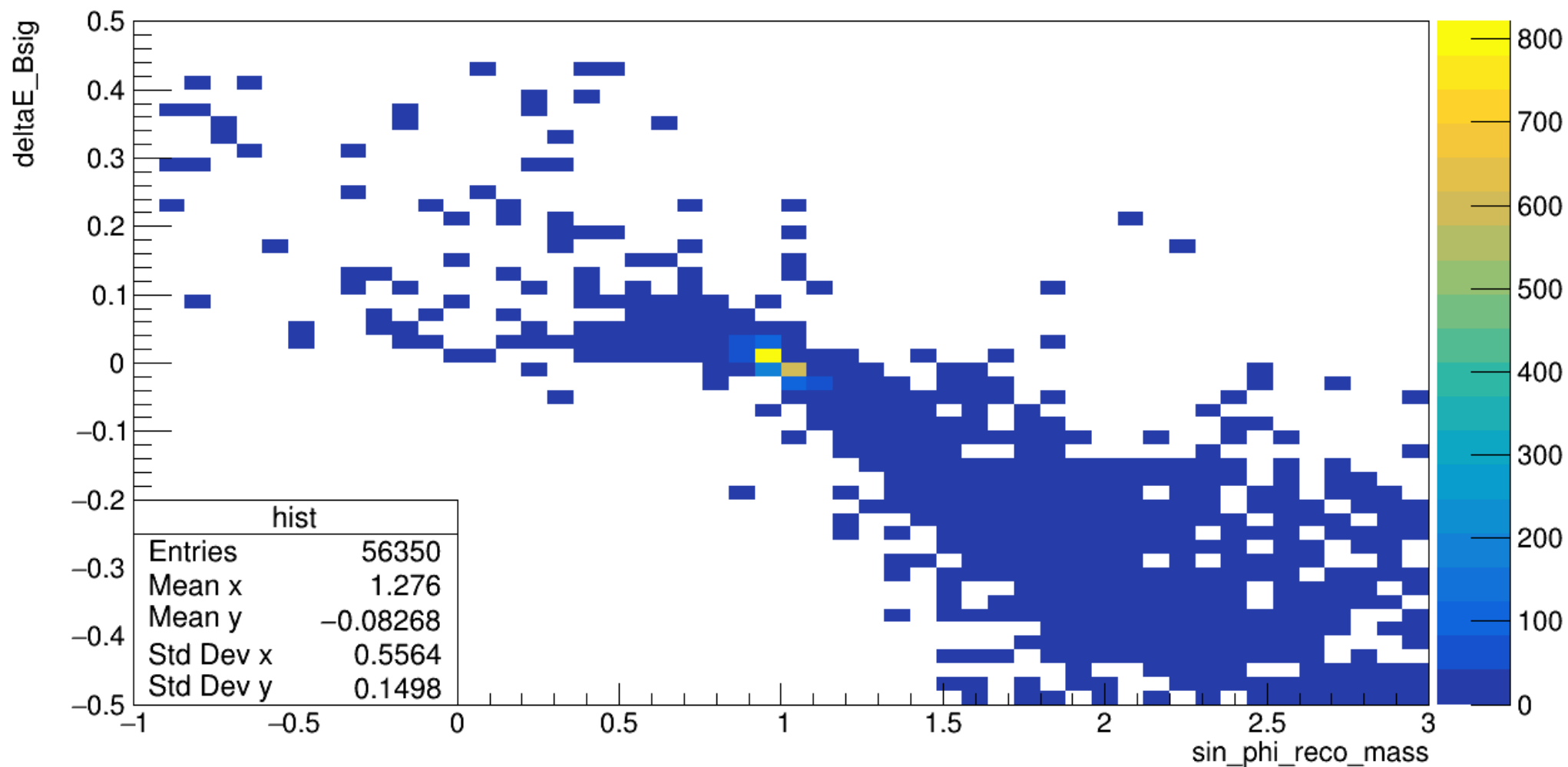
Mbc_Bsig:deltaE_Bsig with Rank 1 and abs(sin_phi_reco_mass) < 1.1



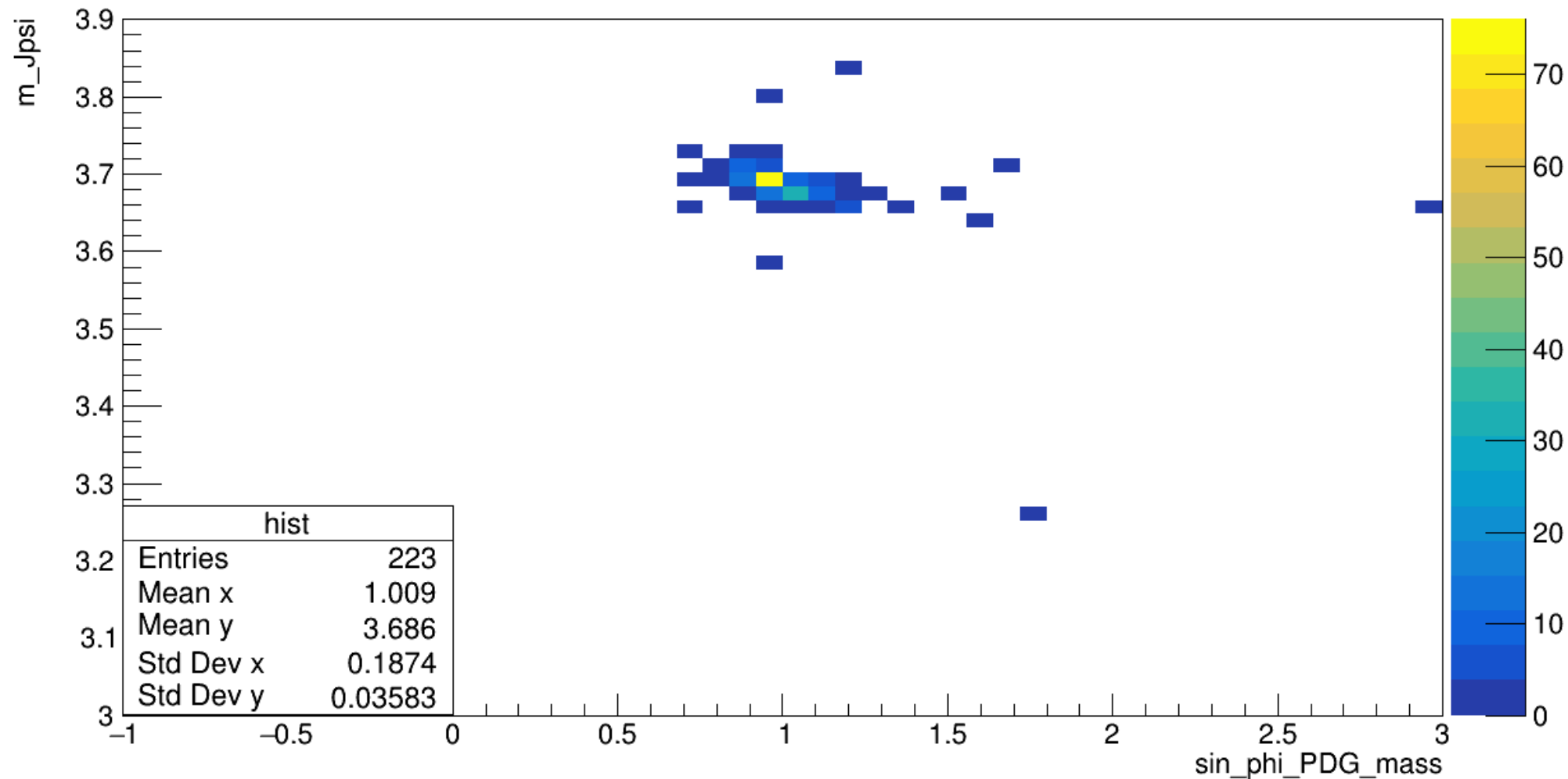
deltaE_Bsig:sin_phi (PDG mass) with Rank 1 and Mbc_Bsig > 5.27



deltaE_Bsig:sin_phi (reco. mass) with Rank 1 and Mbc_Bsig > 5.27



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



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

