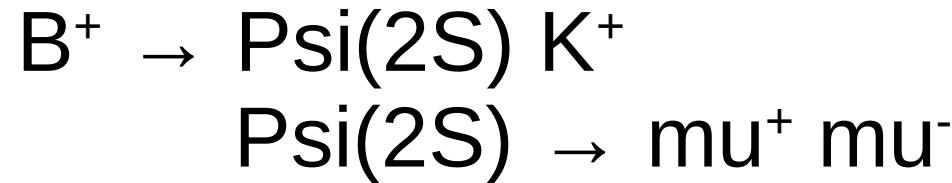


# 2D Plots update

Complete Belle data set



19 April 2024

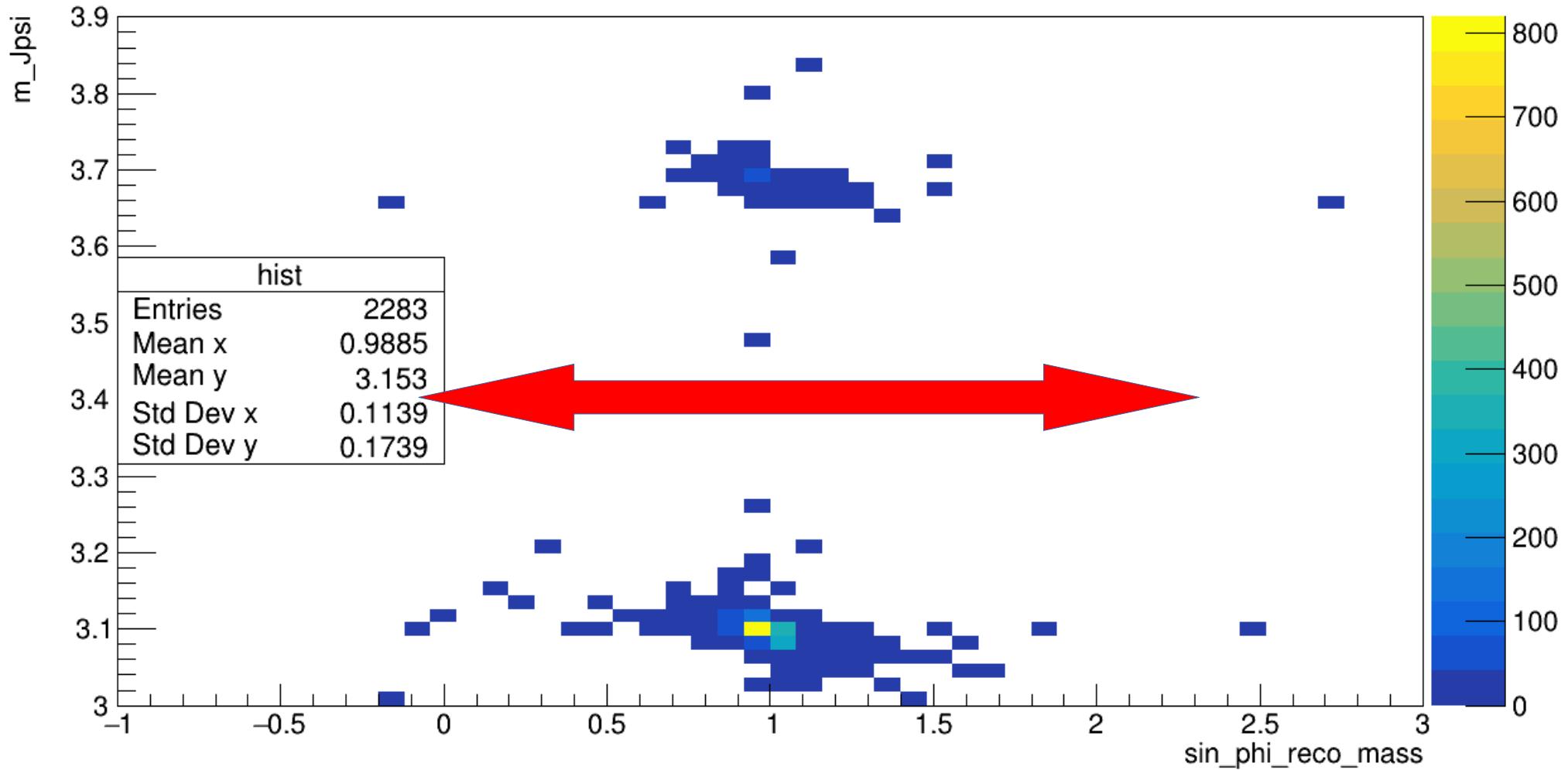
# Cuts in the reconstruction program

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

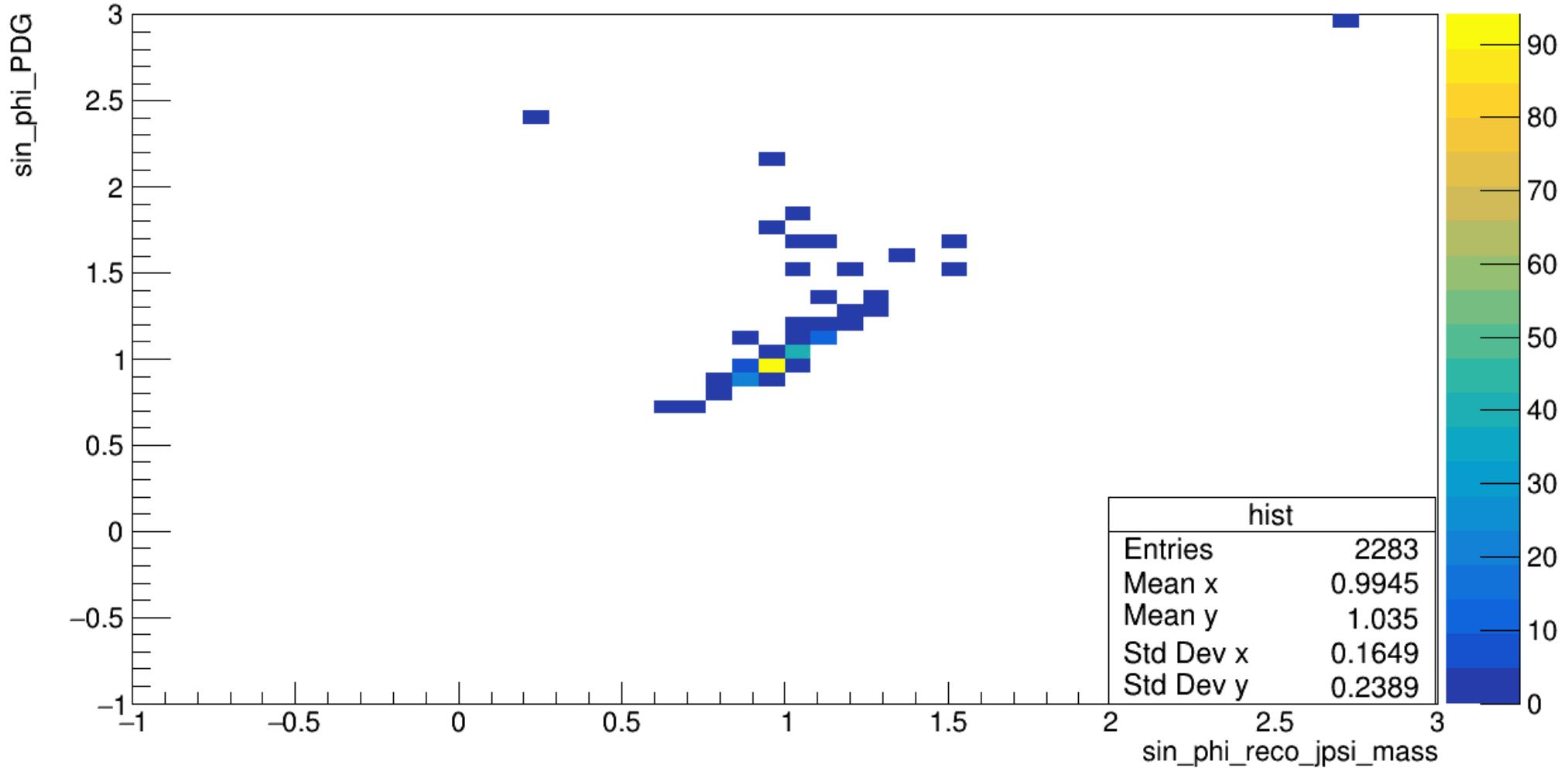
# Root level cuts

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

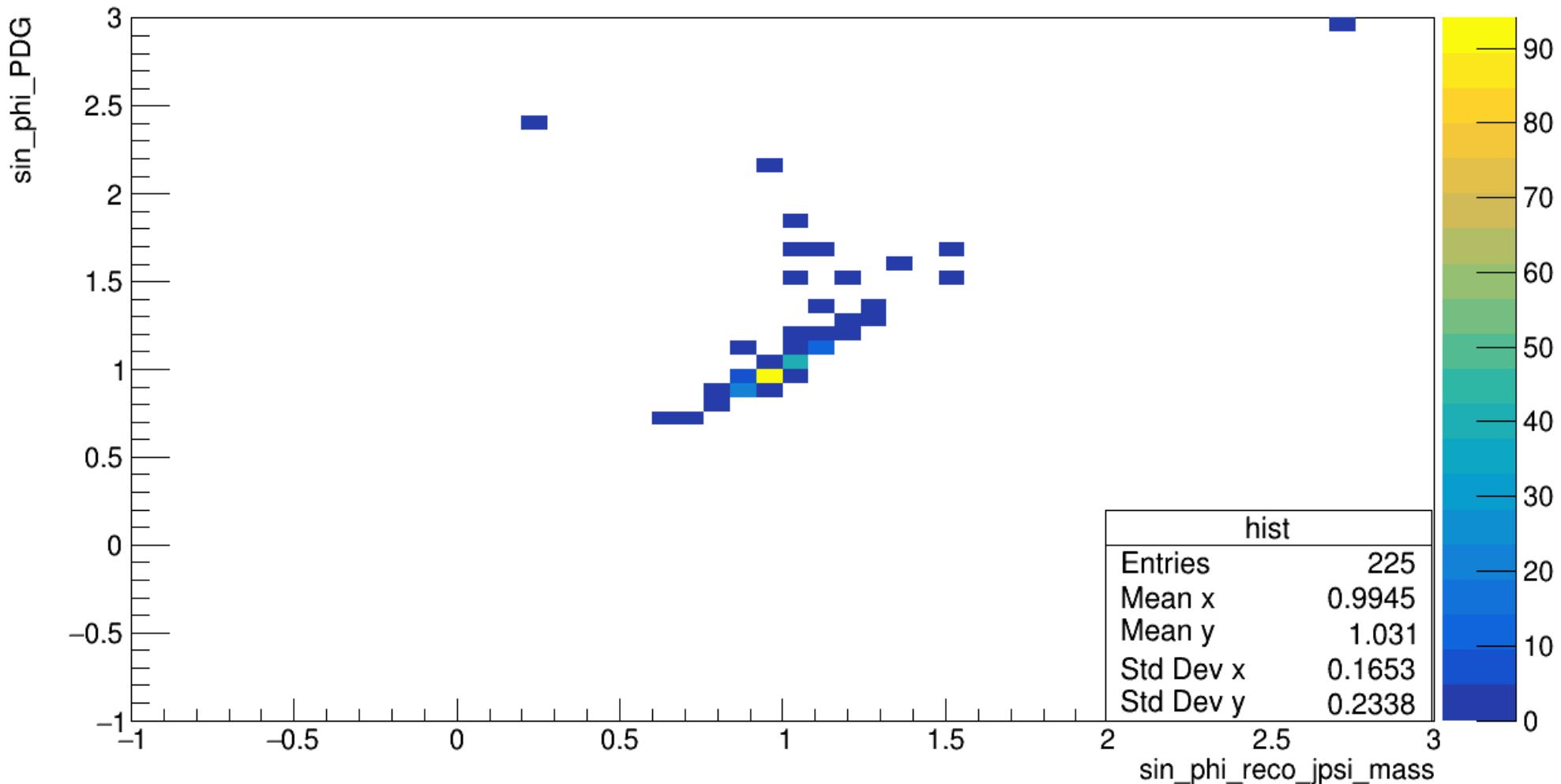
m\_Psi(2S):sin\_phi (reco. mass) with Rank 1 and Mbc\_Bsig > 5.27 and -0.050 < deltaE < 0.050



sin\_phi\_PDG:sin\_phi\_reco\_psi\_mass with Rank 1, -0.050 <deltaE< 0.050 and Mbc\_Bsig>5.27

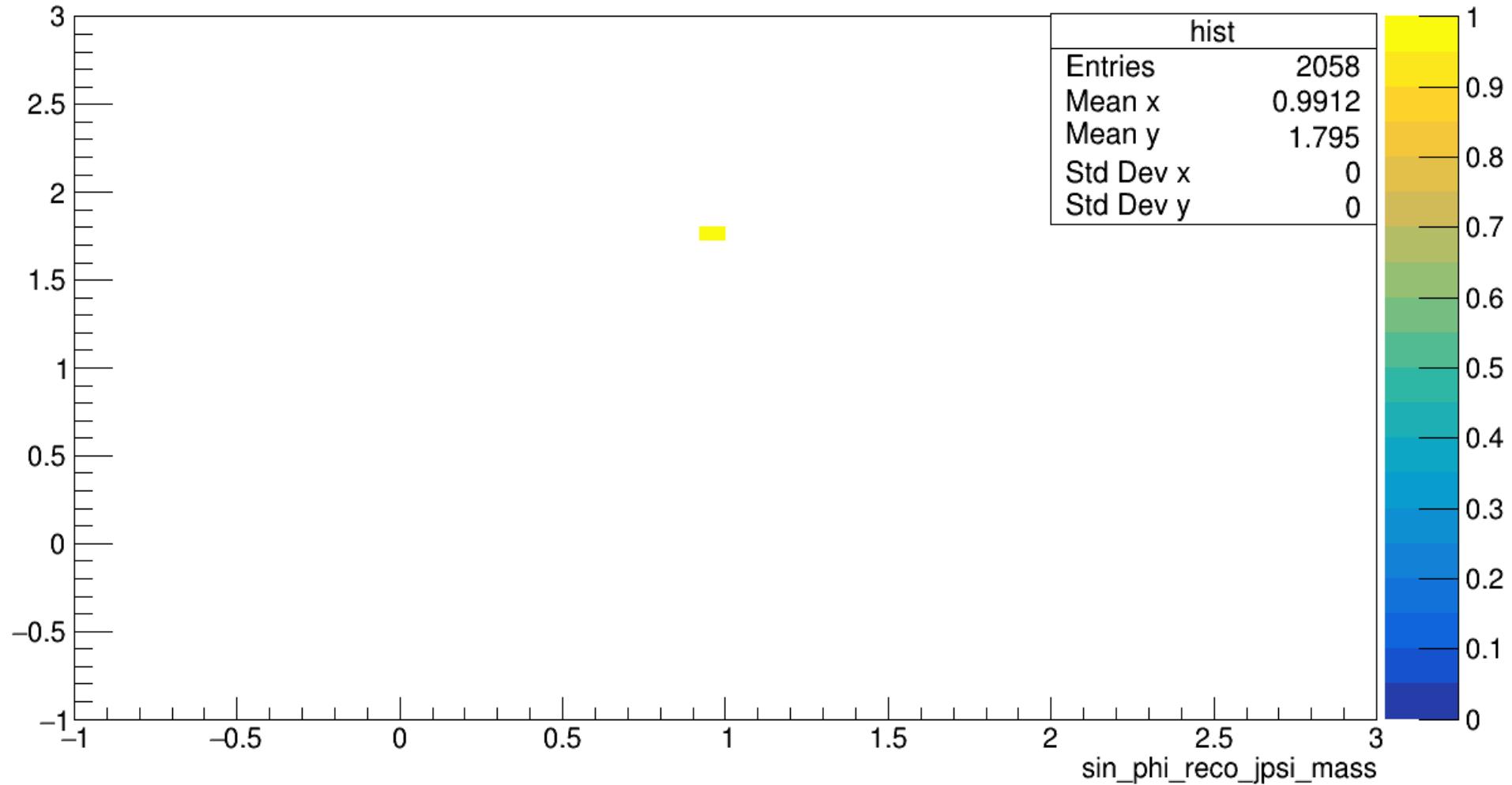


sin\_phi\_PDG:sin\_phi\_reco\_psi\_mass with Rank 1, m(Psi)>3.4, -0.050 <deltaE< 0.050 and Mbc\_Bsig>5.27



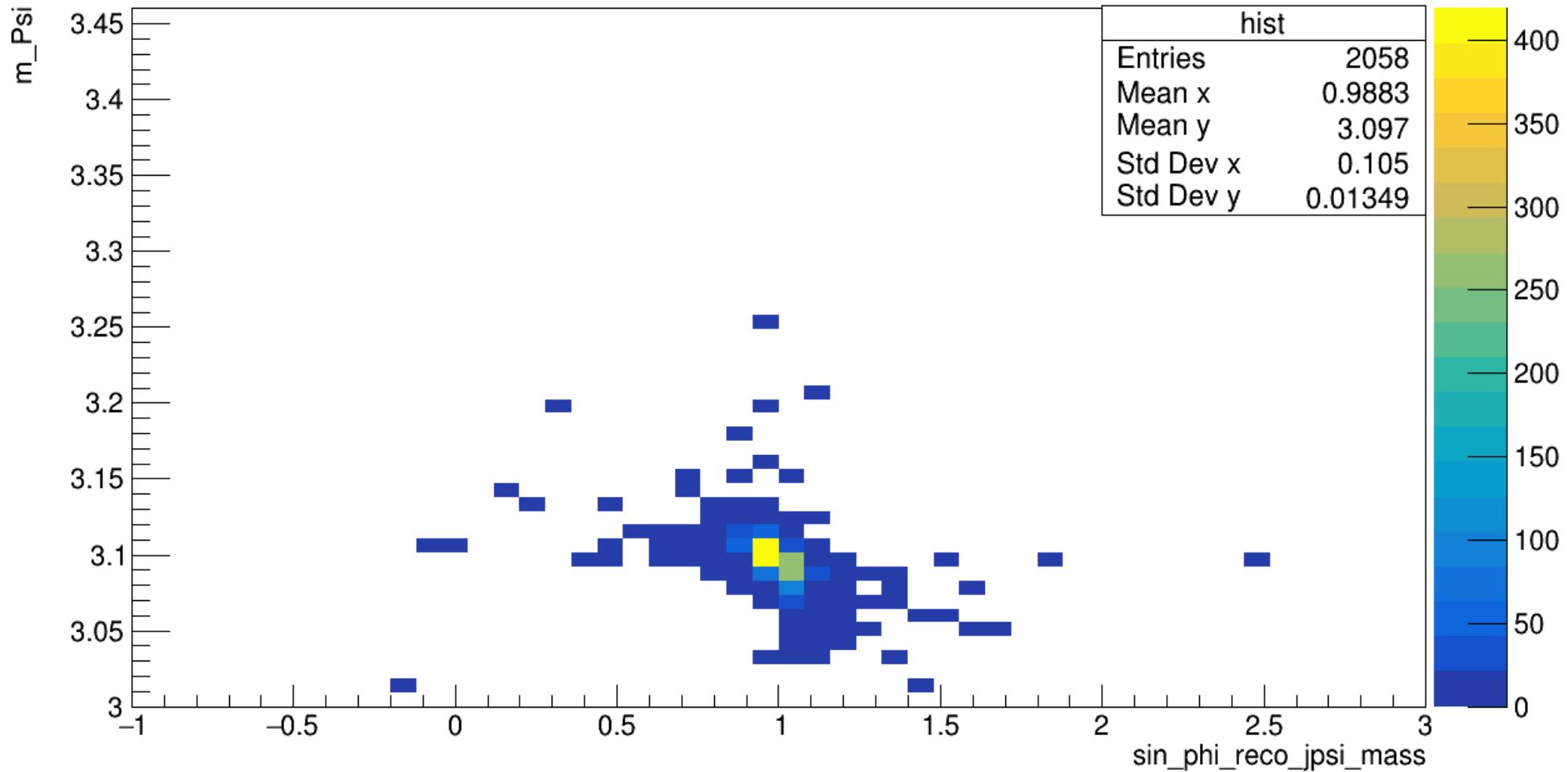
sin\_phi\_PDG:sin\_phi\_reco\_psi\_mass with Rank 1, m(Psi)<3.4, -0.050 <deltaE< 0.050 and Mbc\_Bsig>5.27

sin\_phi\_PDG



Back up

m\_Psi:sin\_phi\_reco\_psi\_mass with Rank 1, m(Psi)<3.45, -0.050 <deltaE< 0.050 and Mbc\_Bsig>5.27



m\_Psi:sin\_phi\_reco\_psi\_mass with Rank 1, m(Psi)>3.45, -0.050 <deltaE< 0.050 and Mbc\_Bsig>5.27

m\_Psi

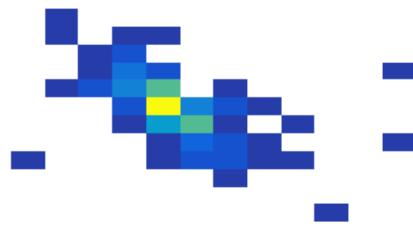
3.9  
3.85  
3.8  
3.75  
3.7  
3.65  
3.6  
3.55  
3.5  
3.45

hist

Entries	225
Mean x	0.9907
Mean y	3.687
Std Dev x	0.1773
Std Dev y	0.02463

50  
45  
40  
35  
30  
25  
20  
15  
10  
5  
0

sin\_phi\_reco\_jpsi\_mass



m\_Psi(2S):sin\_phi (PDG mass) with Rank 1 and Mbc\_Bsig > 5.27 and -0.050 < deltaE < 0.050

