Control channels update

Control channel 1 (1.0 M events)

```
B<sup>+</sup> → J/Psi K<sup>+</sup>
J/Psi → mu<sup>+</sup> mu<sup>-</sup>
```

```
Control channel 2 (879285 events)
B^{+} \rightarrow Psi(2S) K^{+}
Psi(2S) \rightarrow mu^{+} mu^{-}
```

1

Last meeting comments

 Plots of best sum of cosine angles for different m_hadROE ranges for both control channels.

 Missing mass squared distributions for second control channel. (Not done yet)

Cuts in the reconstruction program

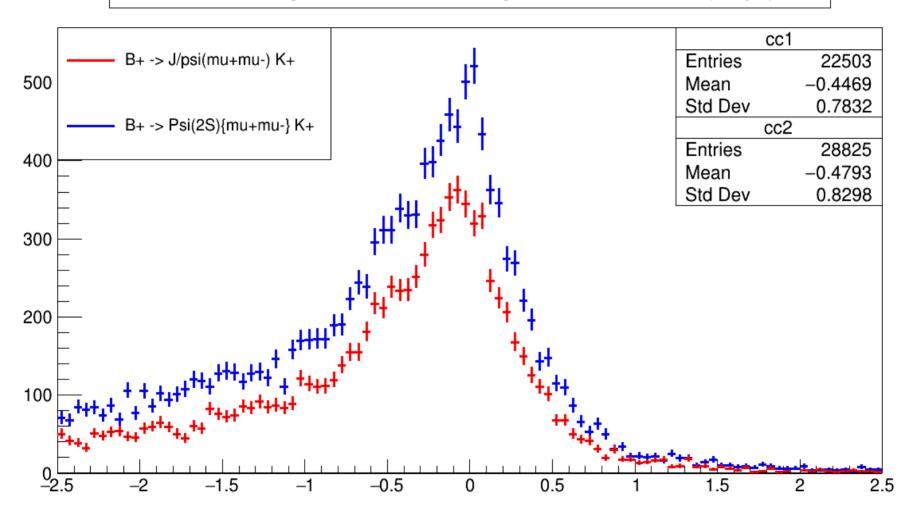
MVA photon cuts

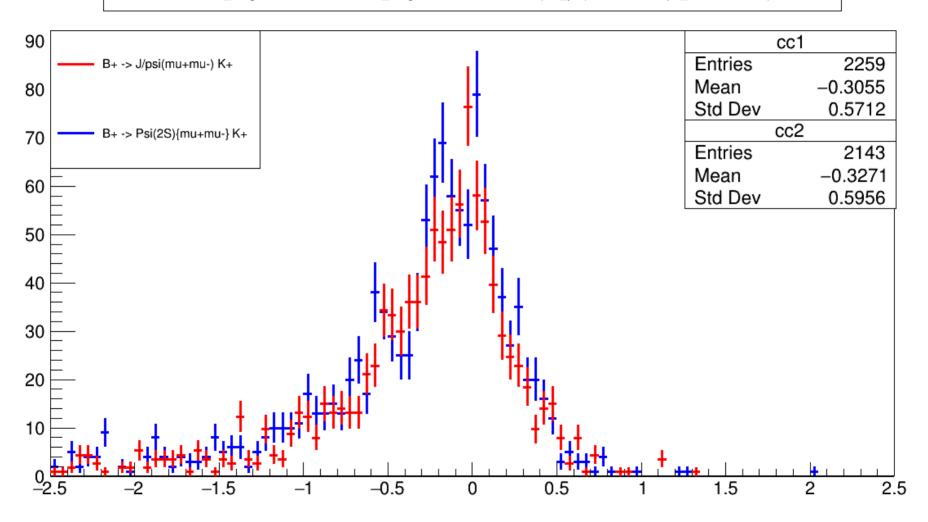
• 1.3 < m_{hadROE} < 5.3 GeV (for second control channel)

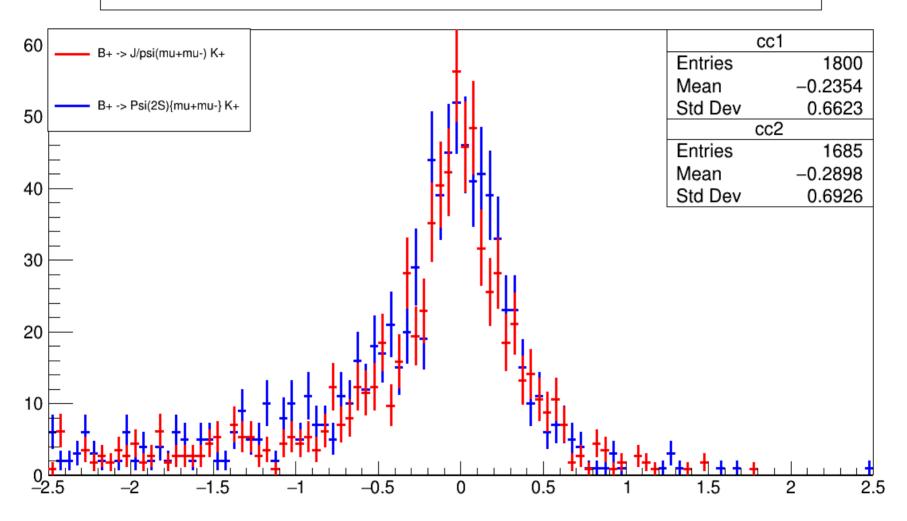
• 1.6 < m_{hadROE} < 2.4 GeV (for first control channel)

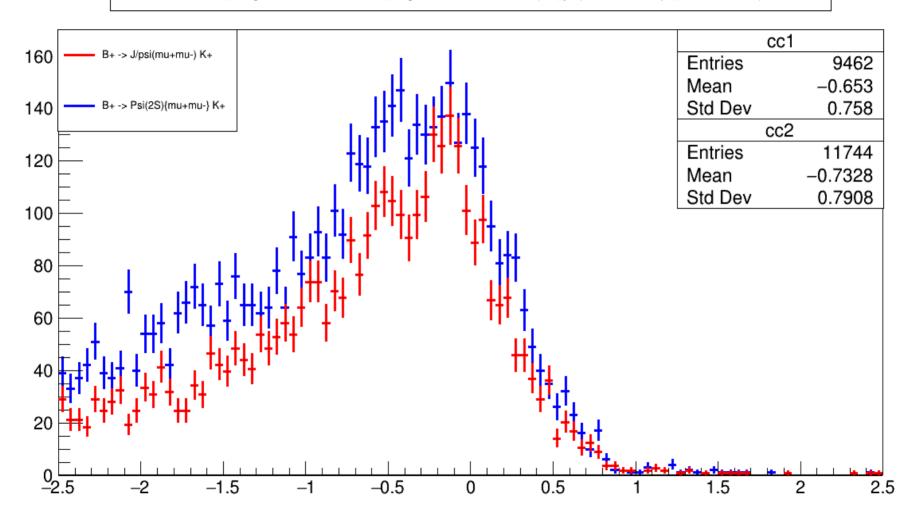
Signal side cuts (root level)

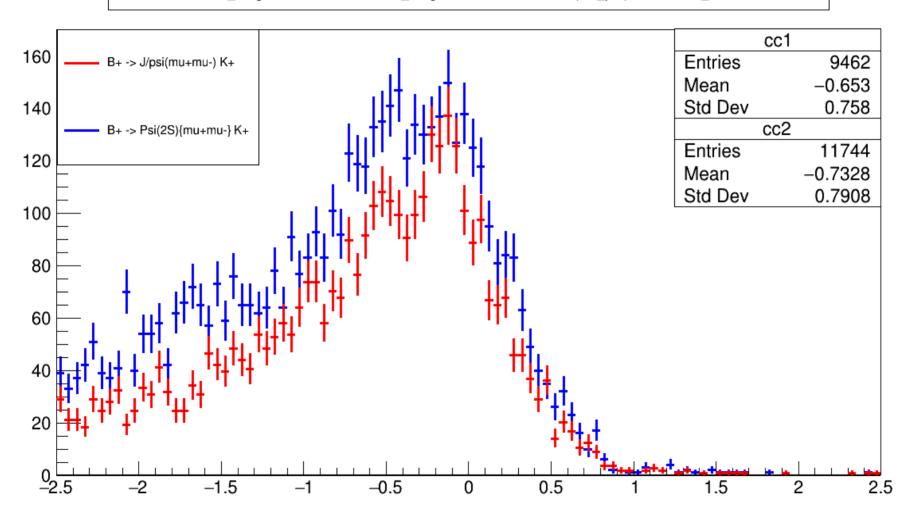
All applied cuts are mentioned in the title of the plots.

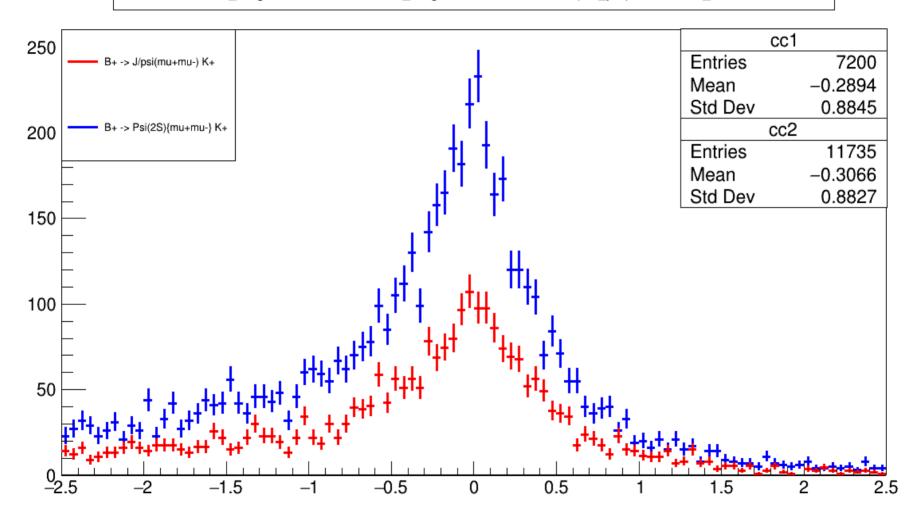












Back up

m_hadROE with Mbc_Bsig>5.27,-0.050 < deltaE_Bsig < 0.050,abs(sin_phi)<1 and Rank 1

