Control channels update

Control channel 1 (1.0 M events)

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B<sup>+</sup> → J/Psi K<sup>+</sup>
J/Psi → mu<sup>+</sup> mu<sup>-</sup>
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Control channel 2 (~880K events)

B^+ \rightarrow Psi(2S) K^+

Psi(2S) \rightarrow mu^+ mu^-
```

1

Last meeting comments

 Comparison of m_hadROE for both control channel modes.

DeltaE_Bsig plots without sin_phi cut.

Cuts in the reconstruction program

MVA photon cuts

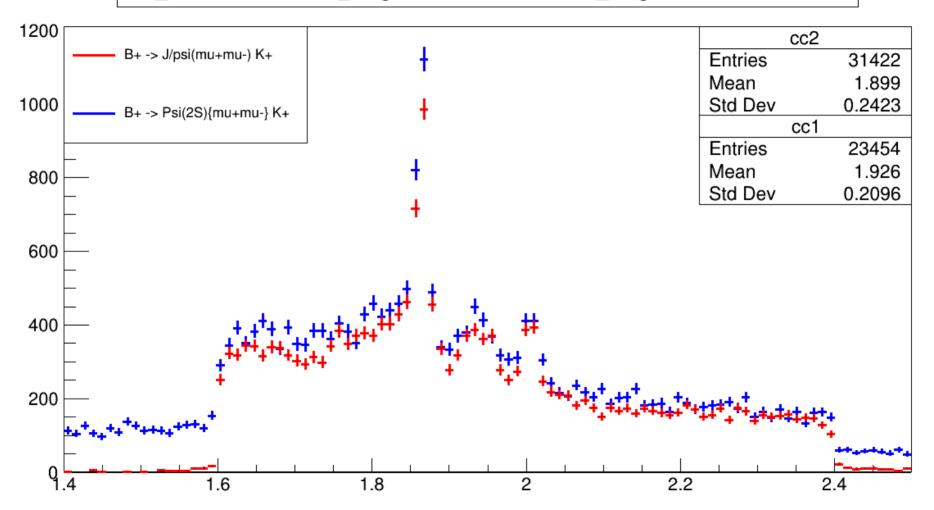
• 1.3 < m_{hadROE} < 5.3 GeV (for second control channel)

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

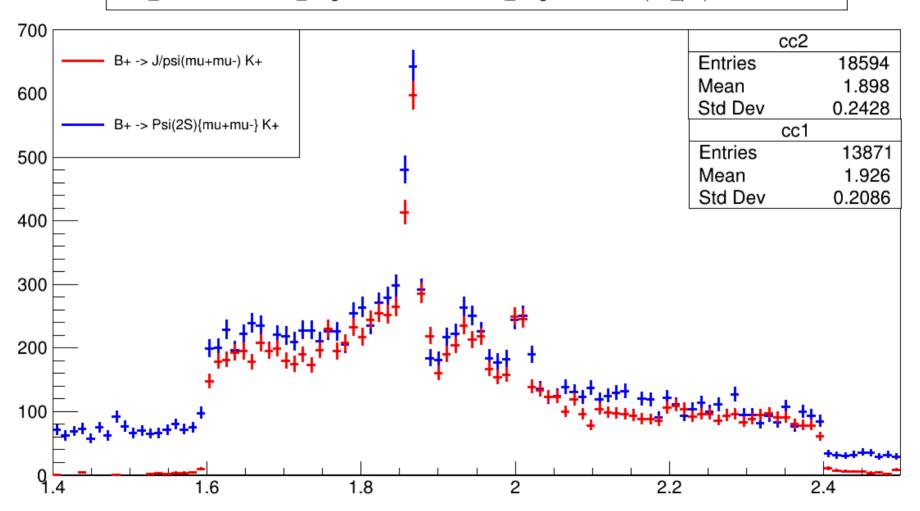
Signal side cuts (root level)

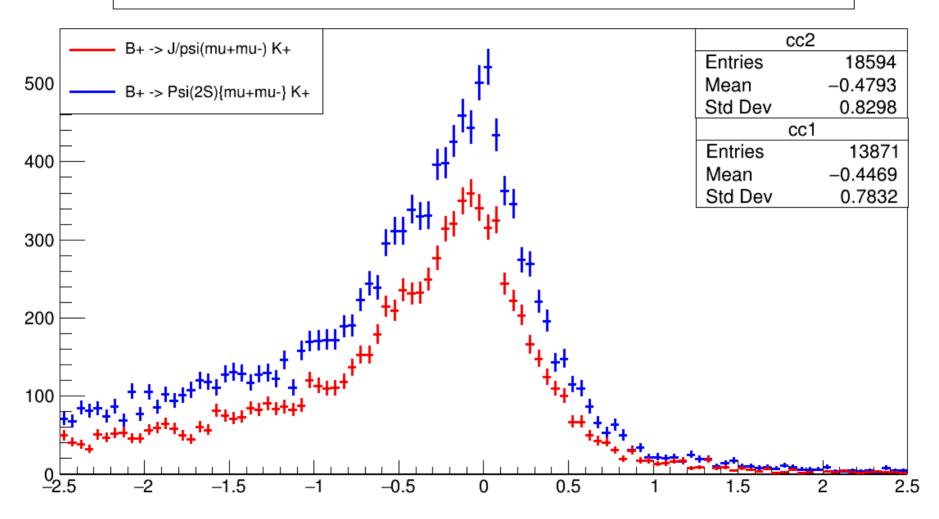
All applied cuts are mentioned in the title of the plots.

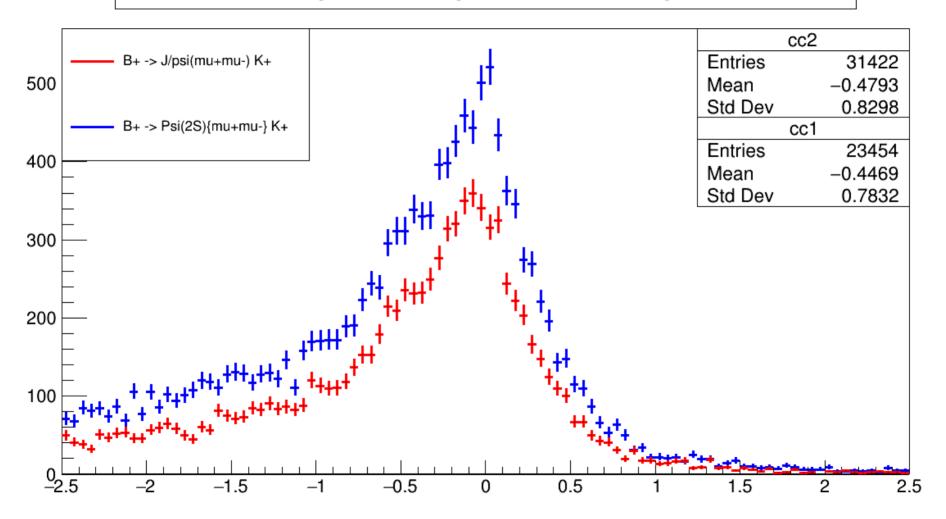
m_hadROE with Mbc_Bsig>5.27,-0.050 < deltaE_Bsig < 0.050 and Rank 1



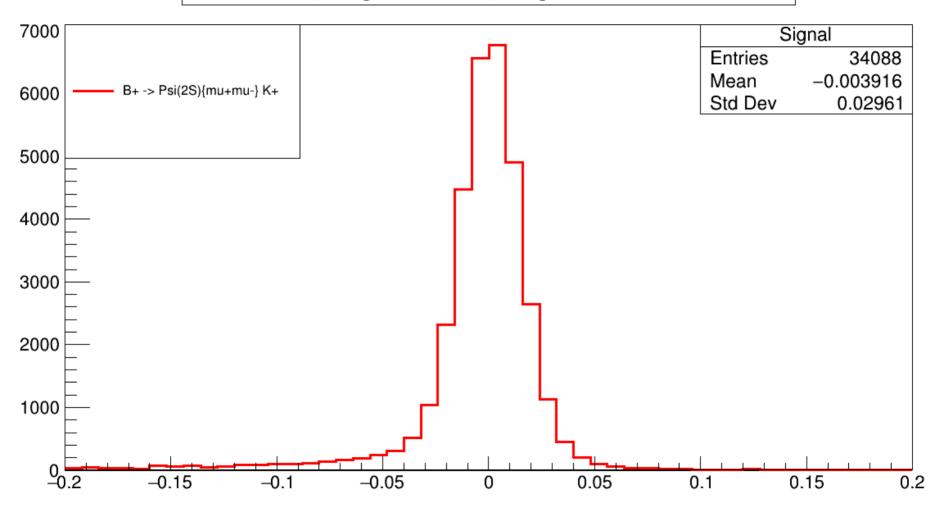
m_hadROE with Mbc_Bsig>5.27,-0.050 < deltaE_Bsig < 0.050,abs(sin_phi)<1 and Rank 1



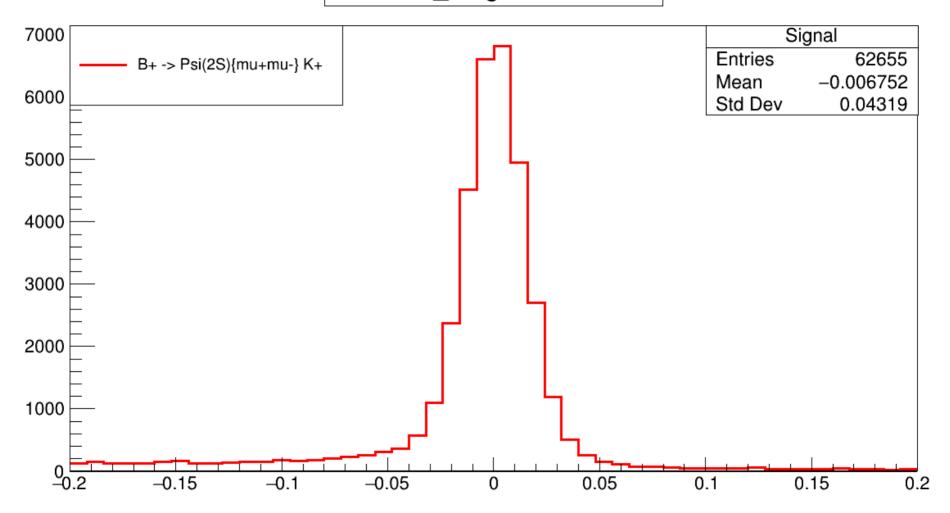




deltaE_Bsig with Mbc_Bsig>5.27 and rank 1



deltaE_Bsig with rank 1



deltaE_Bsig with Mbc_Bsig>5.27,abs(sin_phi)<1 and rank 1

