

Update for Belle data and generic MC

Belle Data (all experiments)

Generic MC (3.0 streams)

05 Feb. 2024

Last meeting comments

- Distributions of best sum of cosine angles for
 - 1- less than m_D .
 - 2- greater than m_D^* .

Cuts in the reconstruction program

- MVA photon cuts
- $1.6 < m_{\text{hadROE}} < 2.4 \text{ GeV}$

Signal side cuts (root level)

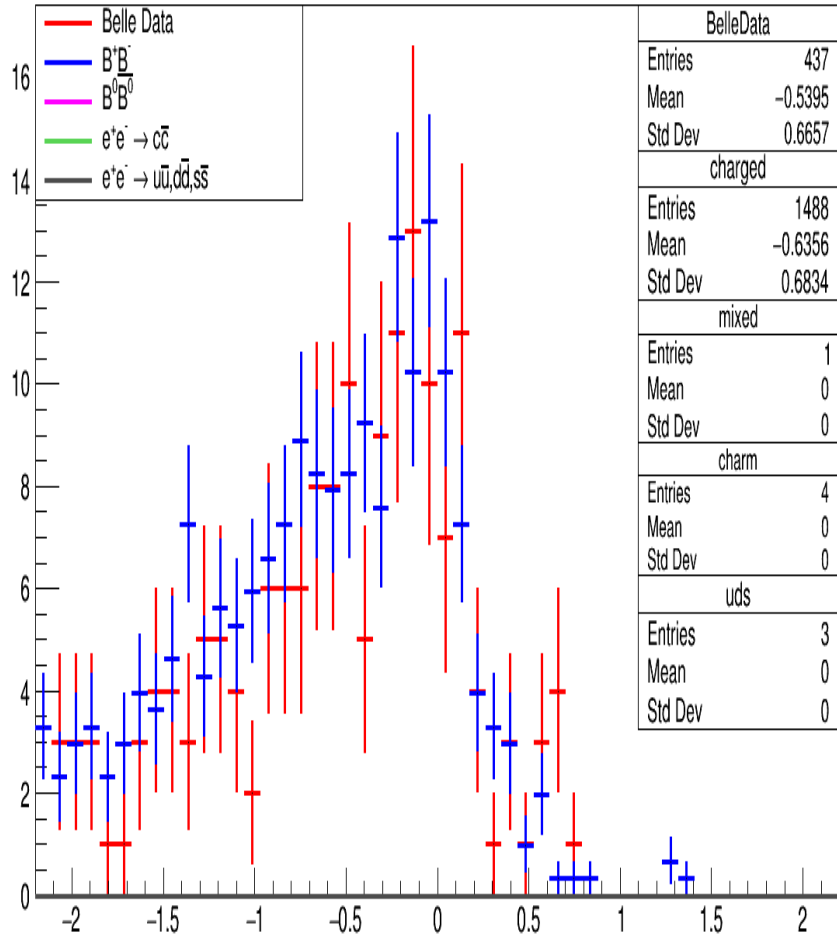
1- $M_{bc} > 5.27 \text{ GeV}$

2- $-0.050 < \Delta E_{B_{sig}} < 0.050 \text{ GeV}$

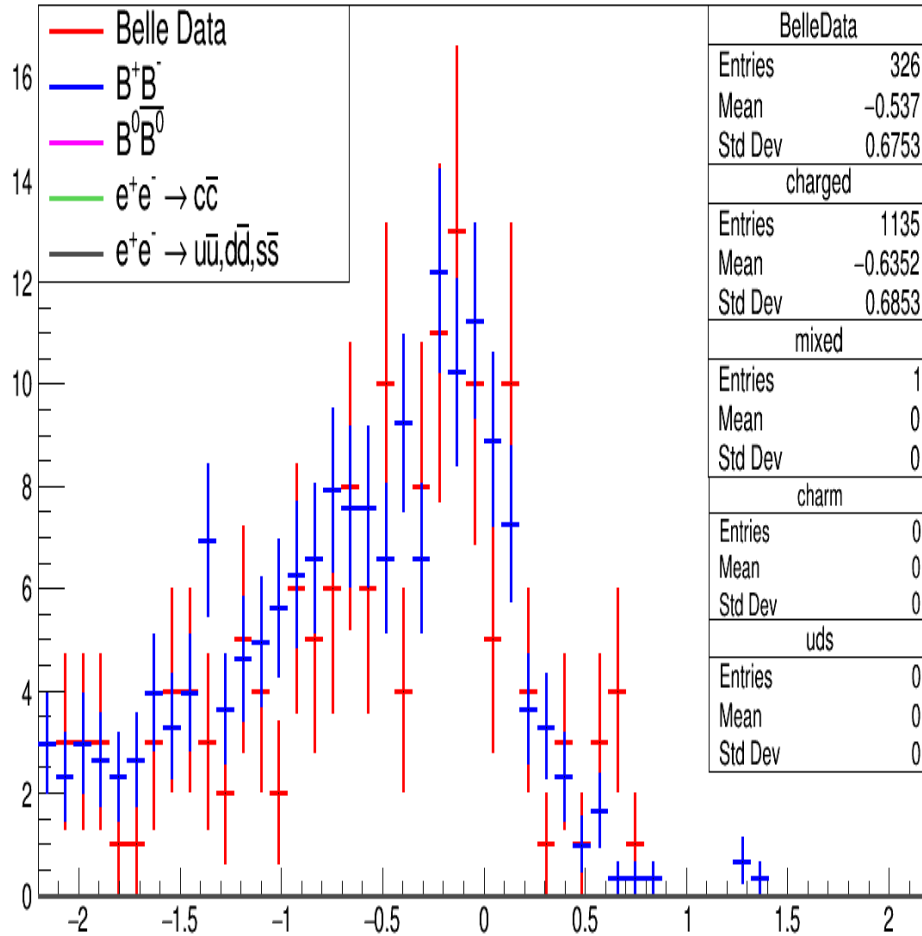
3- Rank 1

4- If some additional cut is applied, it will be mentioned in the title.

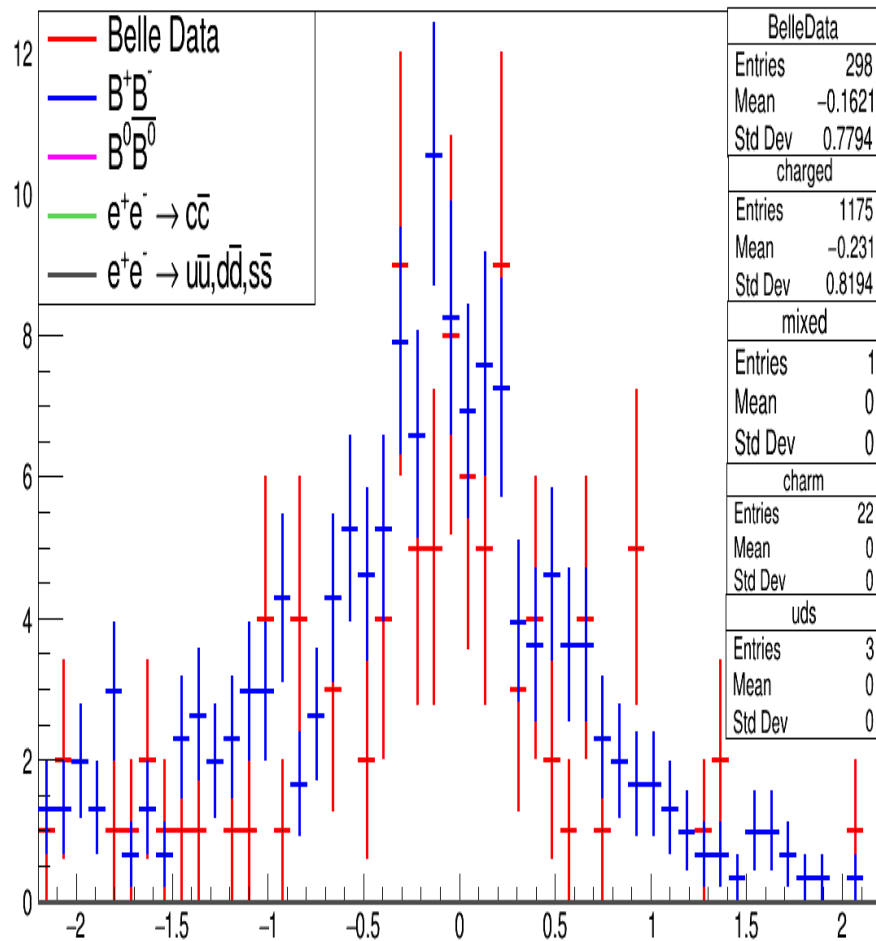
Best case $((\cos\theta_1/\cos\theta_2) + \cos\theta_{\text{tag}})$ for $m_{\text{hadROE}} < 1.86$



Best case $((\cos\theta_1/\cos\theta_2) + \cos\theta_{\text{tag}})$ for $m_{\text{hadROE}} < 1.86$ and $\text{abs}(m_{\text{Jpsi}} - 3.1) < 0.015$



Best case $((\cos\theta_1/\cos\theta_2) + \cos\theta_{tag})$ for $m_{hadROE} > 2.006$



Best case $((\cos\theta_1/\cos\theta_2) + \cos\theta_{tag})$ for $m_{hadROE} > 2.006$ and $abs(m_{Jpsi}-3.1) < 0.015$

