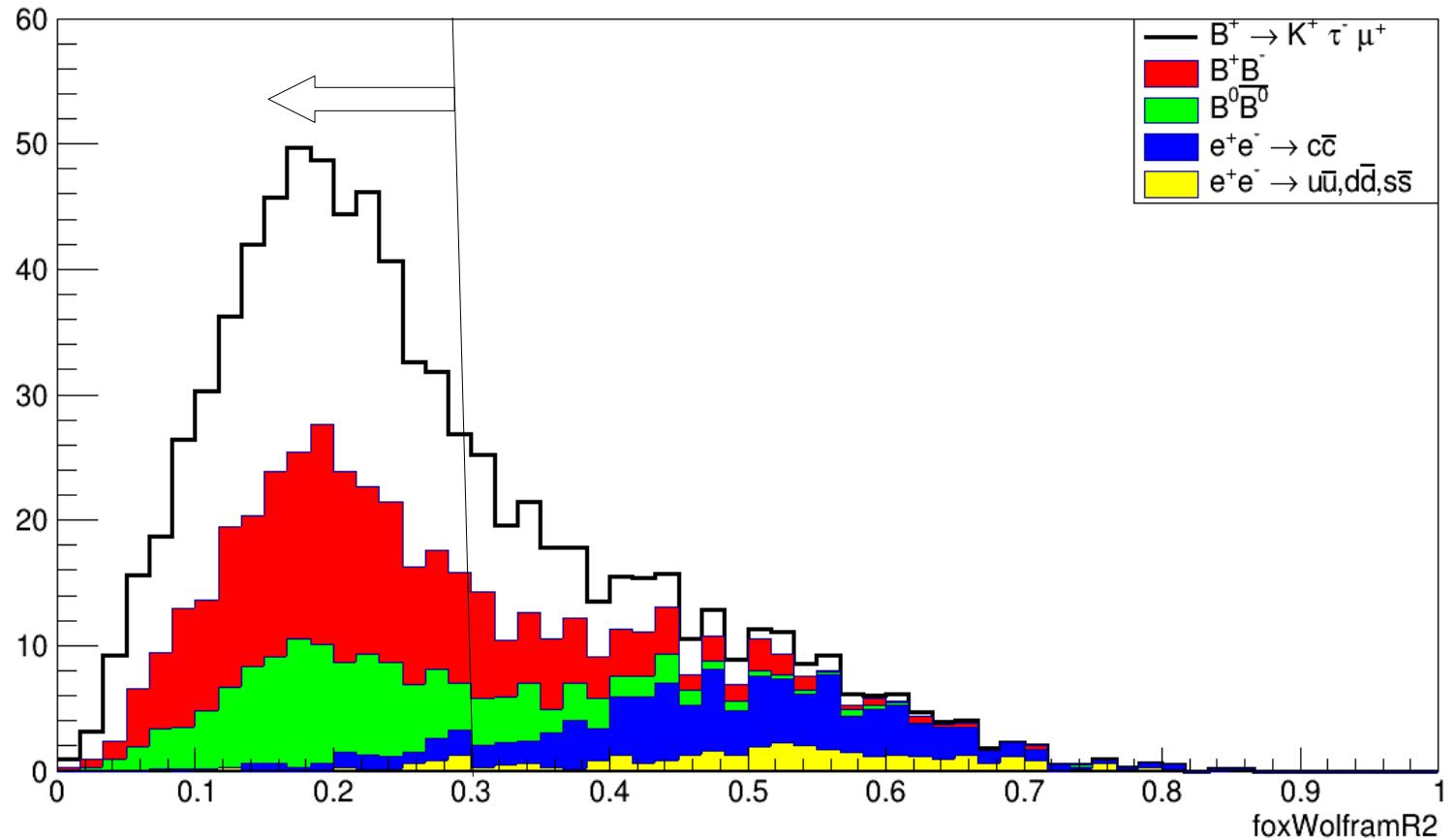


# Update

03/09/2024

# FoxWolframR2



# FoxWolframR2

- Before R2 cut

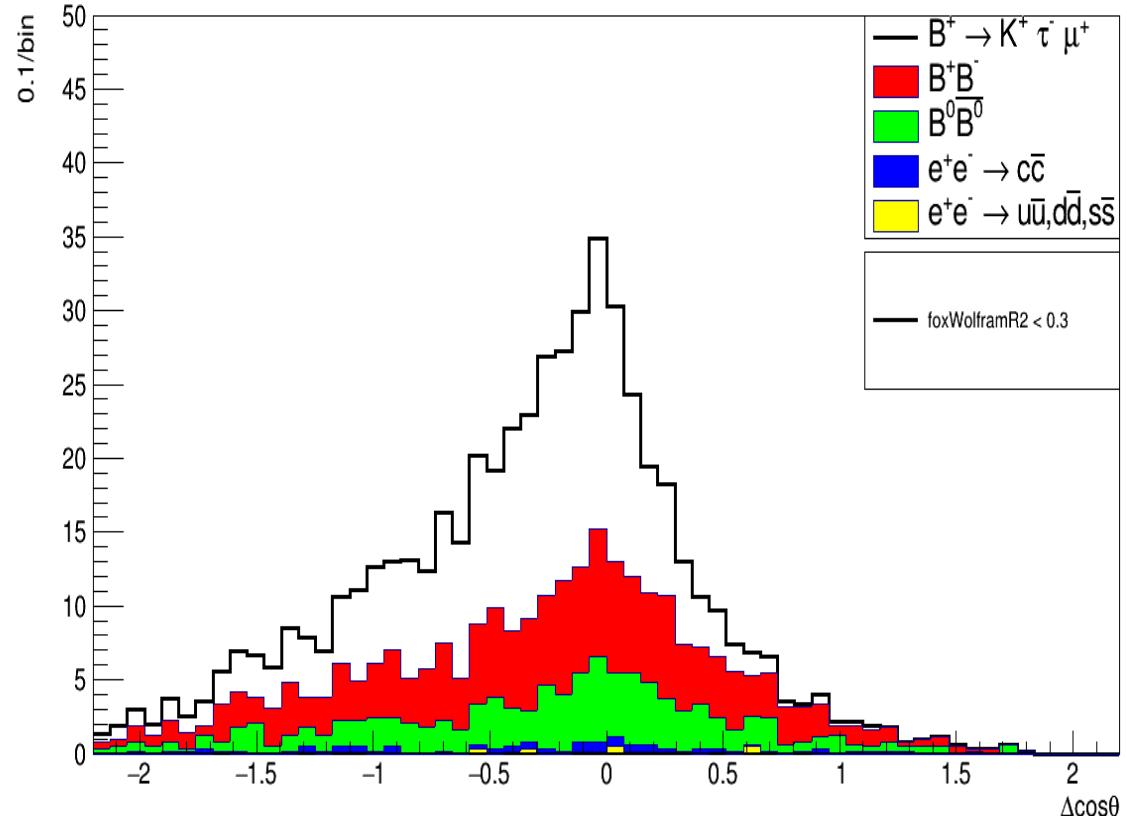
$N_{\text{sig}} = 3401$

$N_{\text{B.G.}} = 3025$

- After  $\text{R2} < 0.3$  cut

$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$



# $Q_{\text{total}}$

- Before  $Q_{\text{total}} = 0$  cut

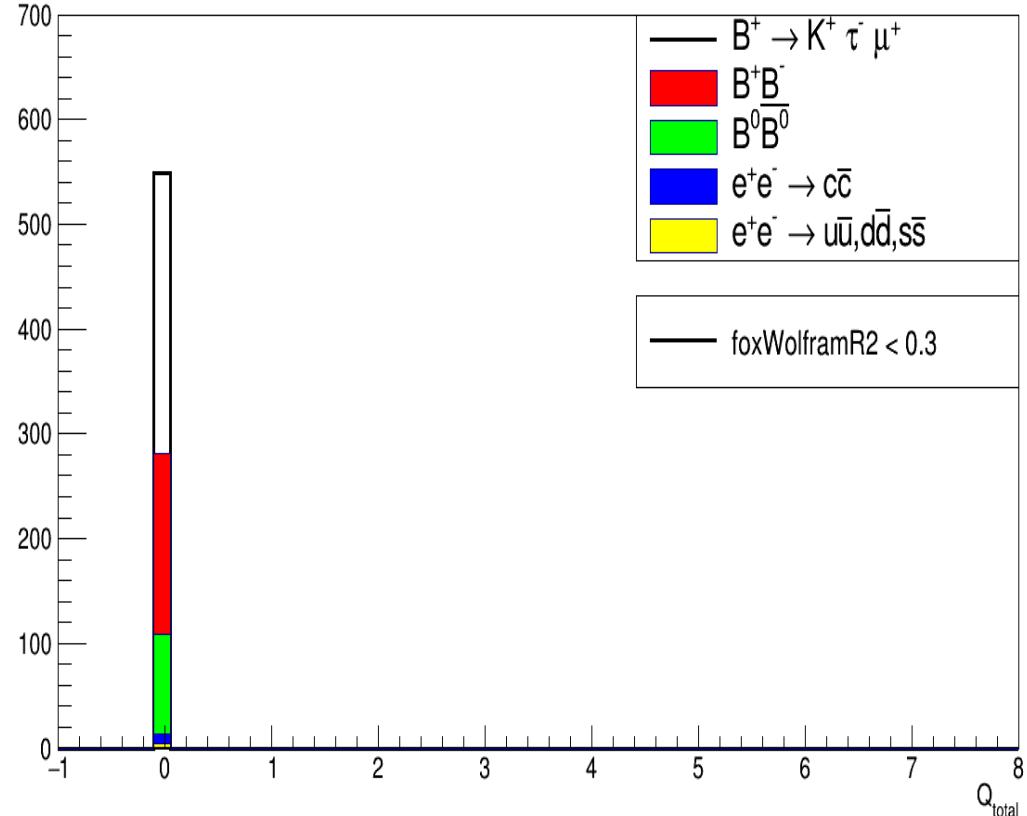
$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$

- After  $Q_{\text{total}} = 0$  cut

$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$



# $Q_{\text{total}}$

- Before  $Q_{\text{total}} = 0$  cut

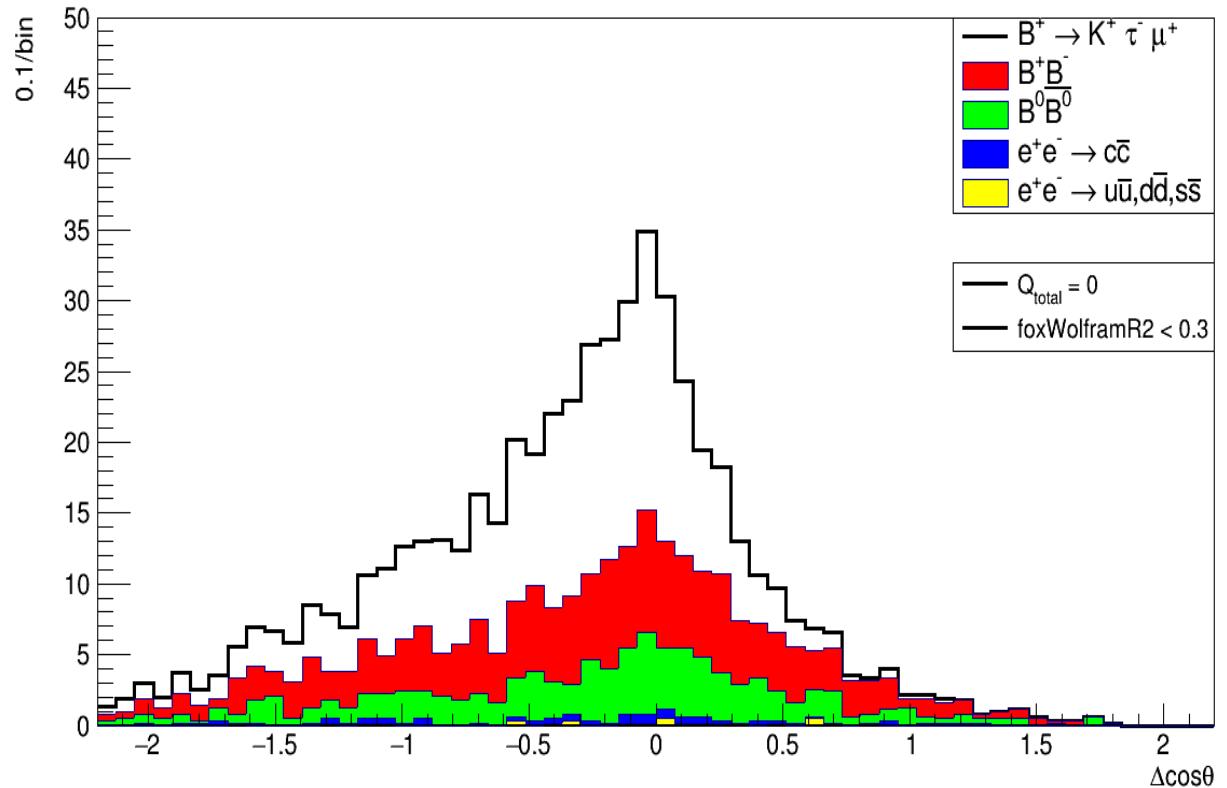
$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$

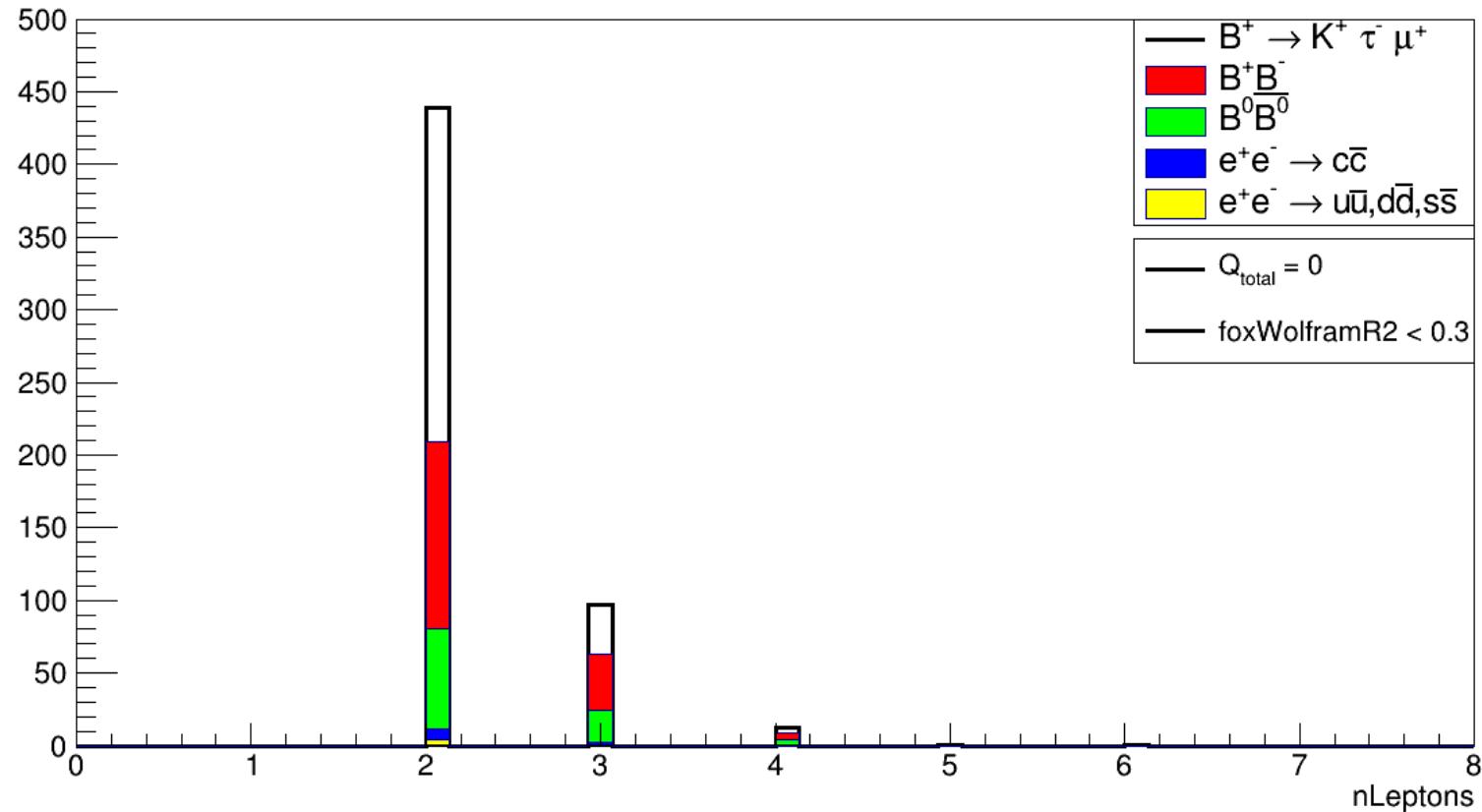
- After  $Q_{\text{total}} = 0$  cut

$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$



# nLeptons



# nLeptons

- Before nLeptons==2 cut

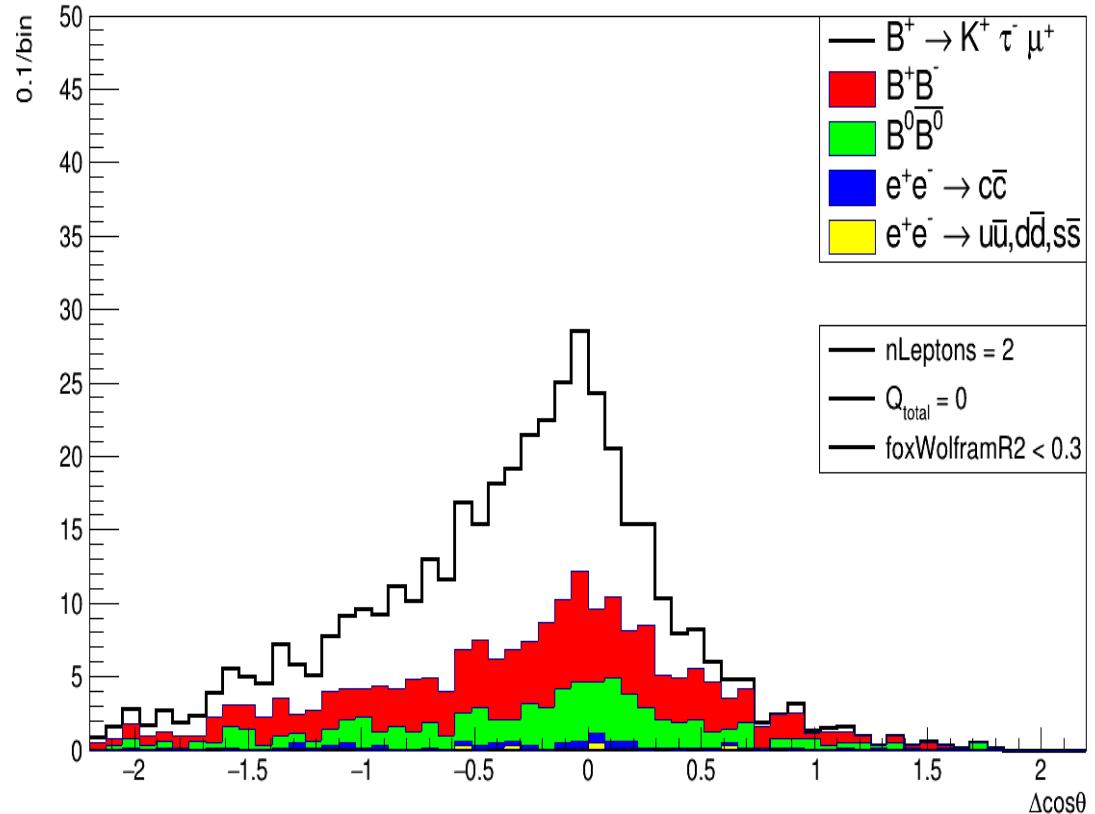
$N_{\text{sig}} = 2684$

$N_{\text{B.G.}} = 1755$

- After nLeptons==2 cut

$N_{\text{sig}} = 2300$

$N_{\text{B.G.}} = 1304$



# Ponzi FOM

- For both  $B^+B^-$ ,  $B^0\bar{B}^0$  backgrounds (norm. to one stream).
- After using all the signal side veto cuts  
 $N_{\text{sig}} = 11089$   
 $N_{\text{B.G}} = 10469$

