

Rb measurement at CEPC MC Level

Bo Li



V4:

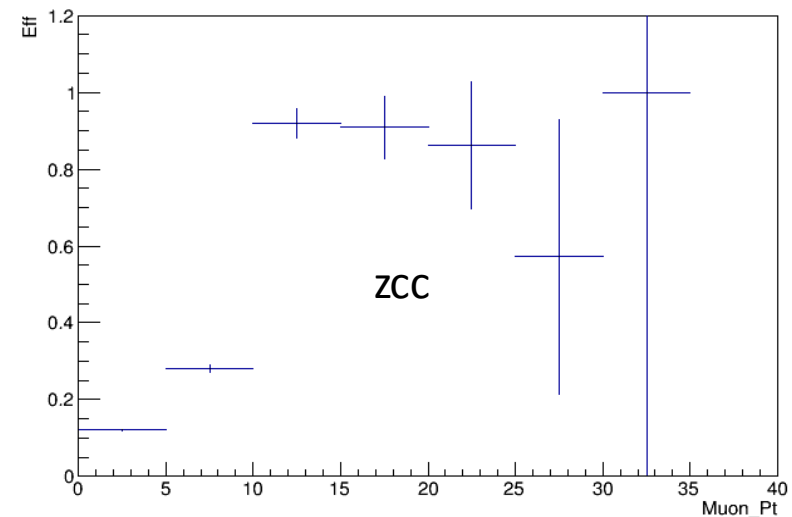
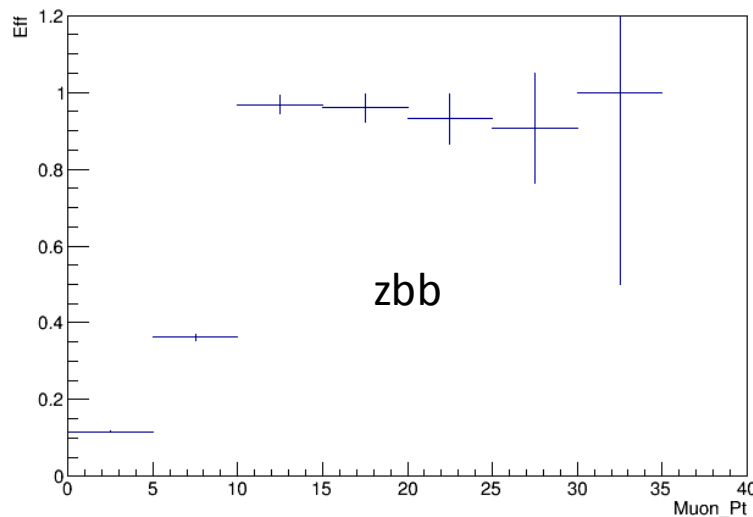
Isolation cuts in the ISOLatedLeptonFinderProcessor:

No Impact Parameter cut

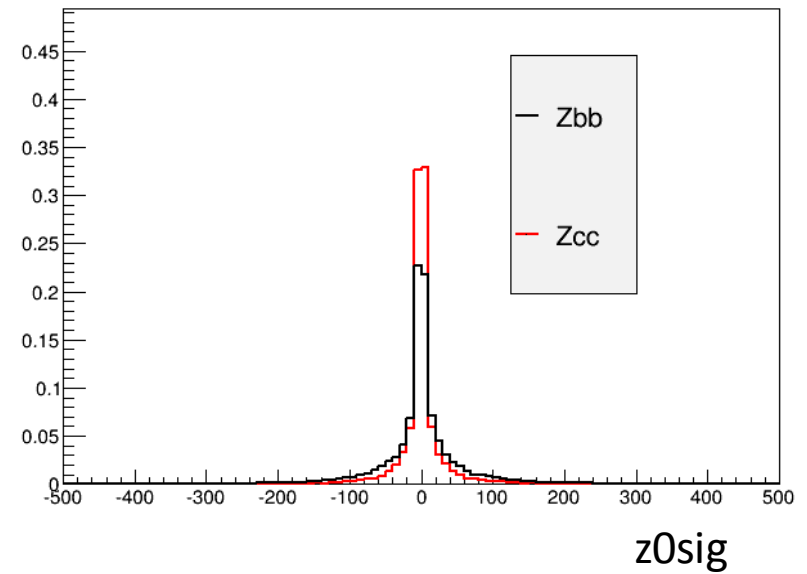
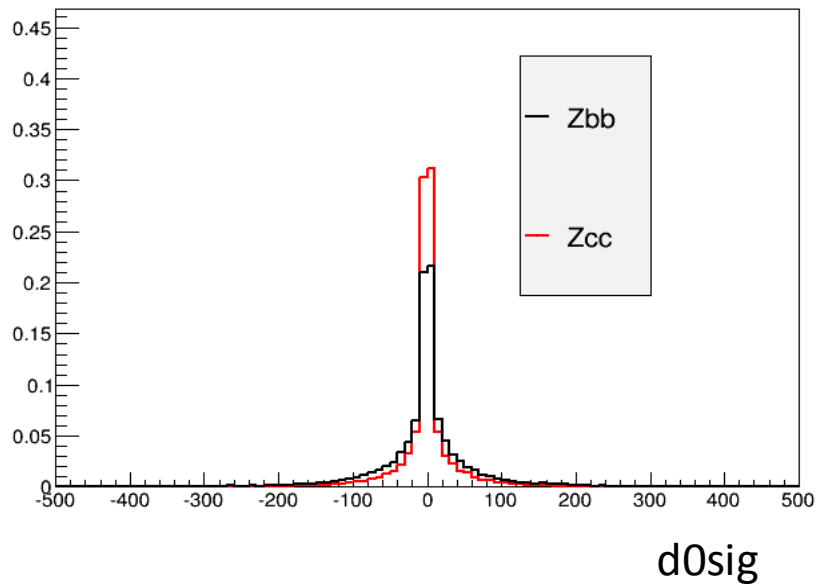
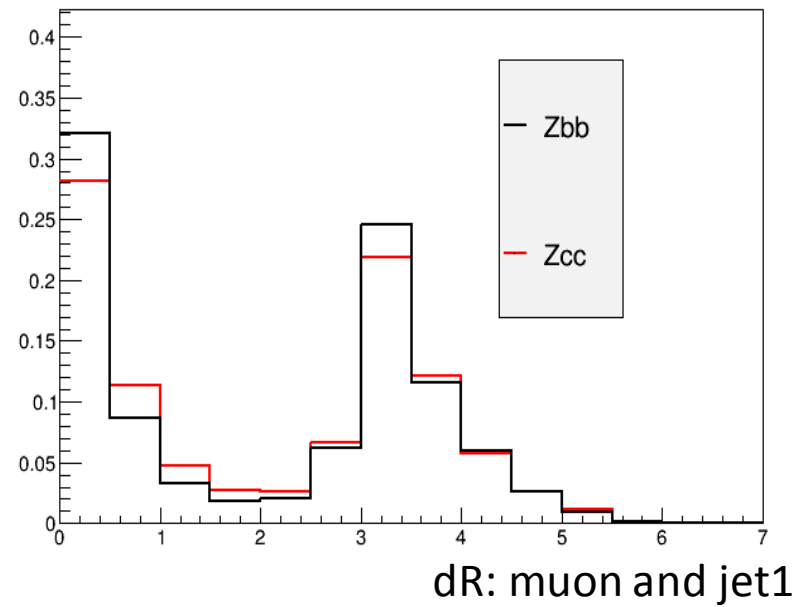
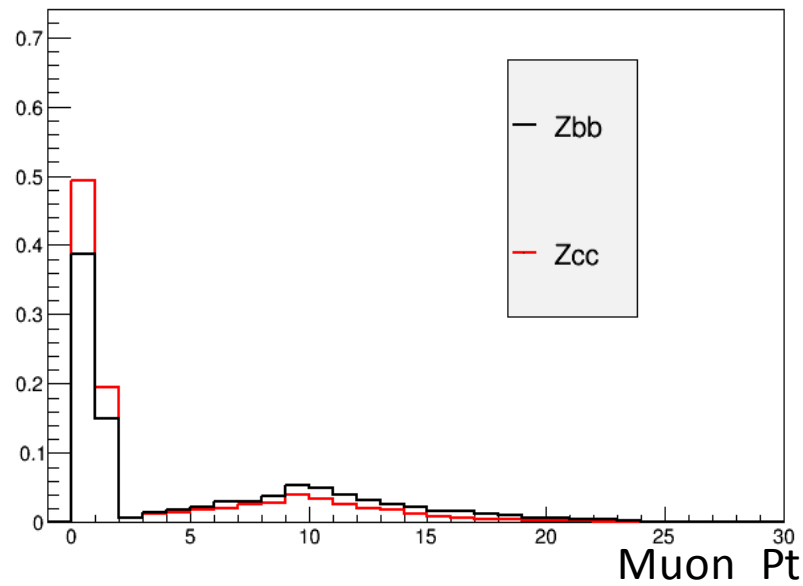
No Rectangular cut

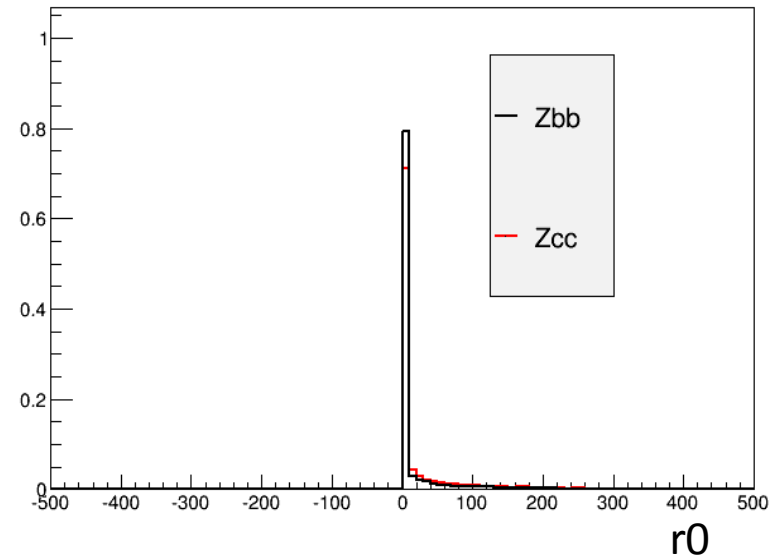
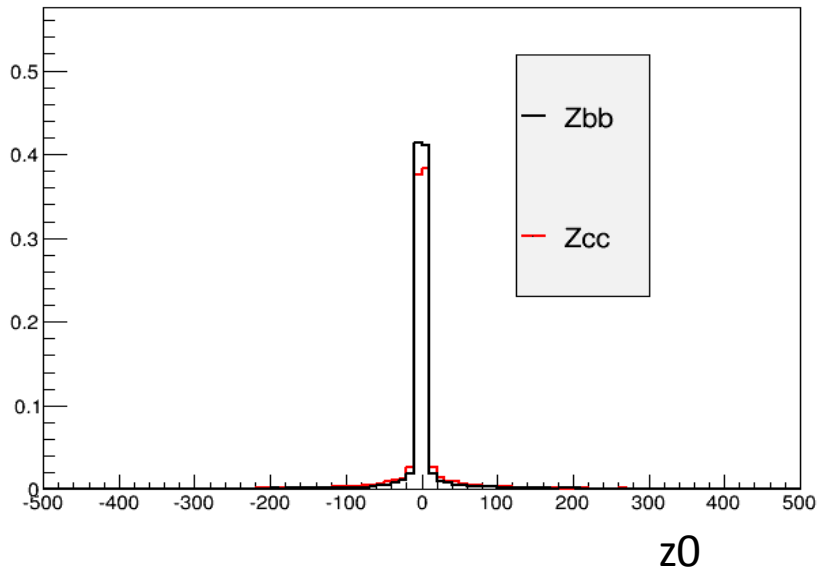
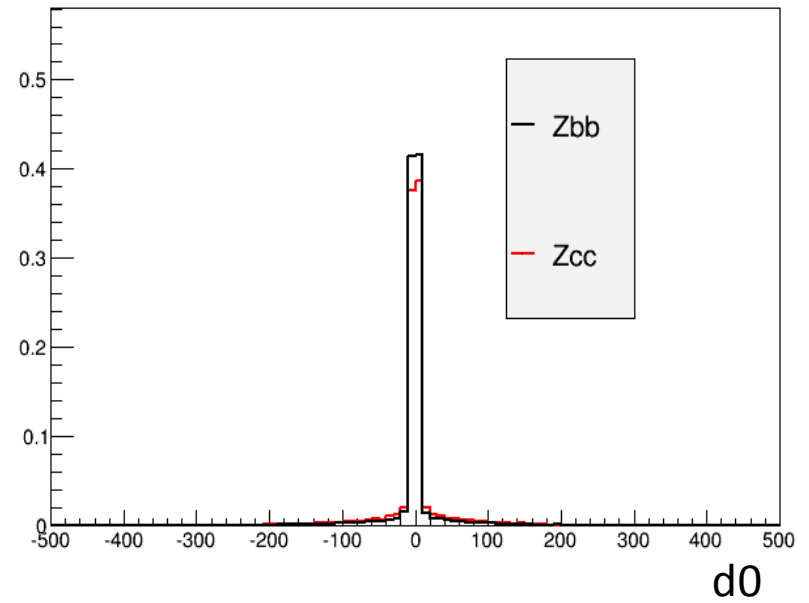
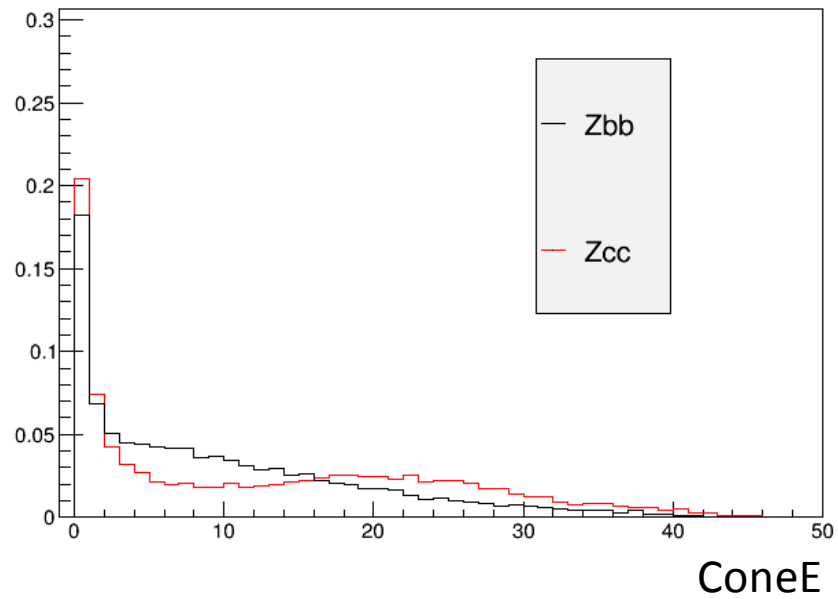
No Polynomial cut

Muon efficiency: Truth muon at Reco level / Total truth muon



	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	<u>0-40</u>
zbb	0.116	0.362	0.968	0.959	0.931	0.906	1	0	0.213
zcc	0.121	0.281	0.921	0.909	0.862	0.571	1	0	0.166

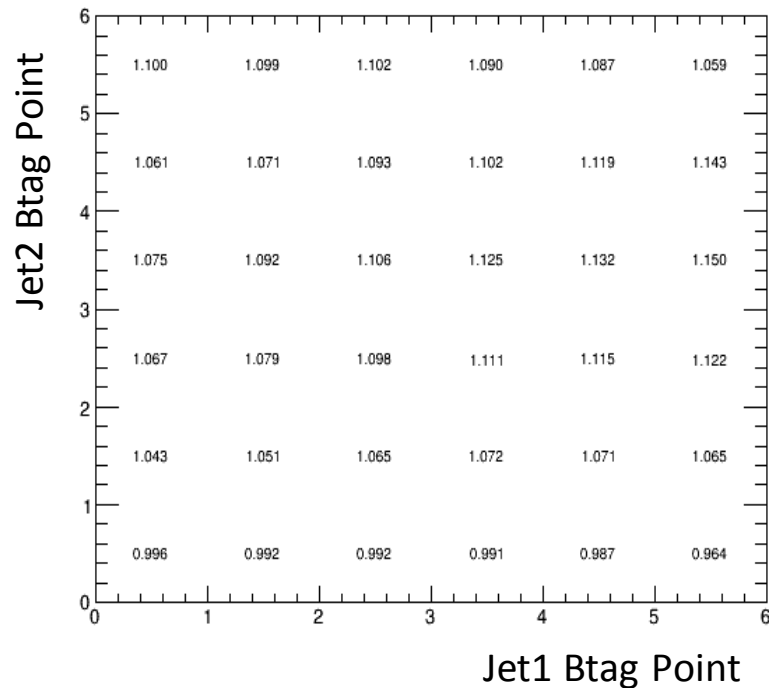




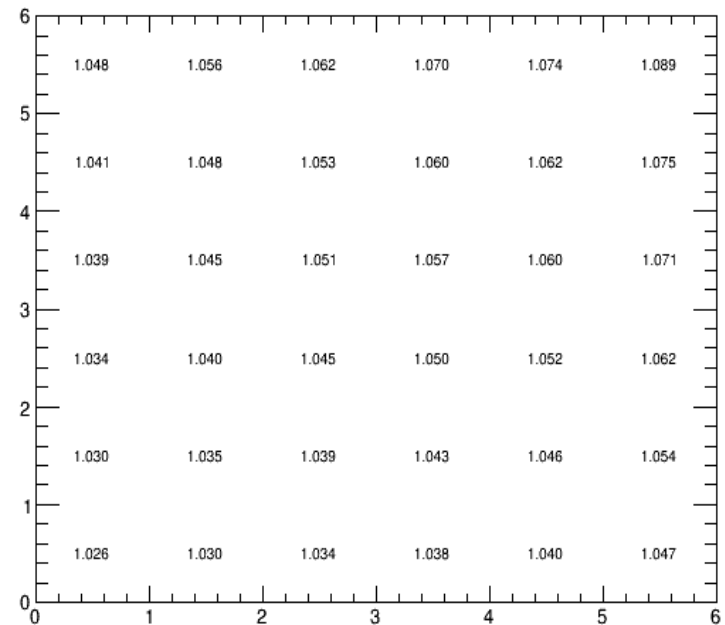
$$C_b = \frac{\varepsilon_{2jet-tagged}}{\varepsilon_b^I \varepsilon_b^J}$$

I : Prob>0.6 >0.7 >0.8 >0.9 >0.95 >0.99

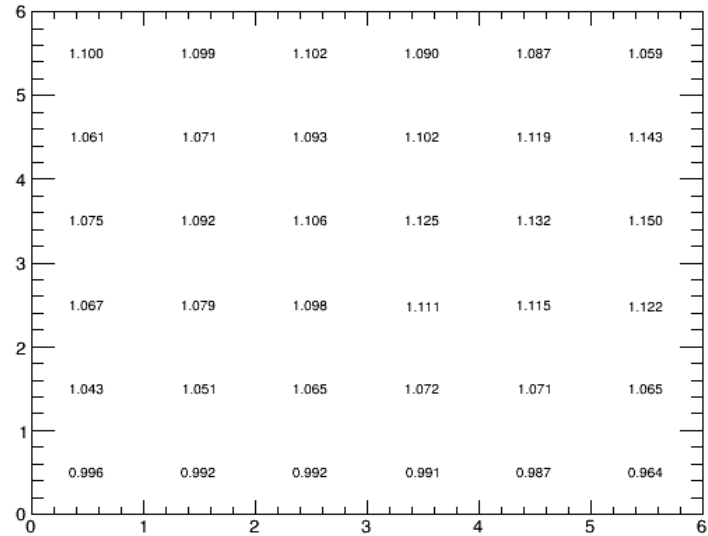
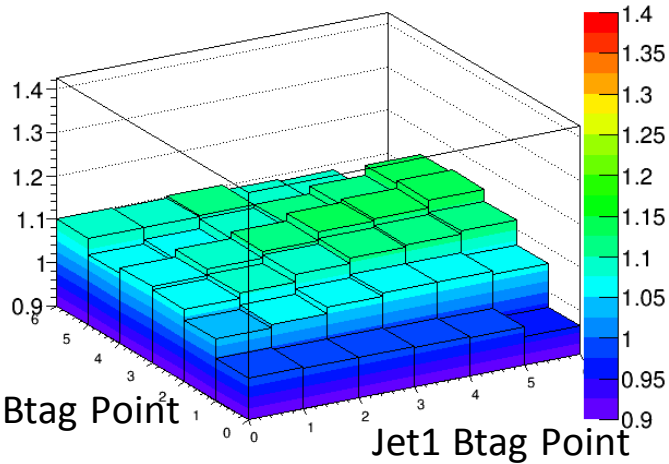
J : Muon_Pt>0GeV >5 >10 >15 >20 >25



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