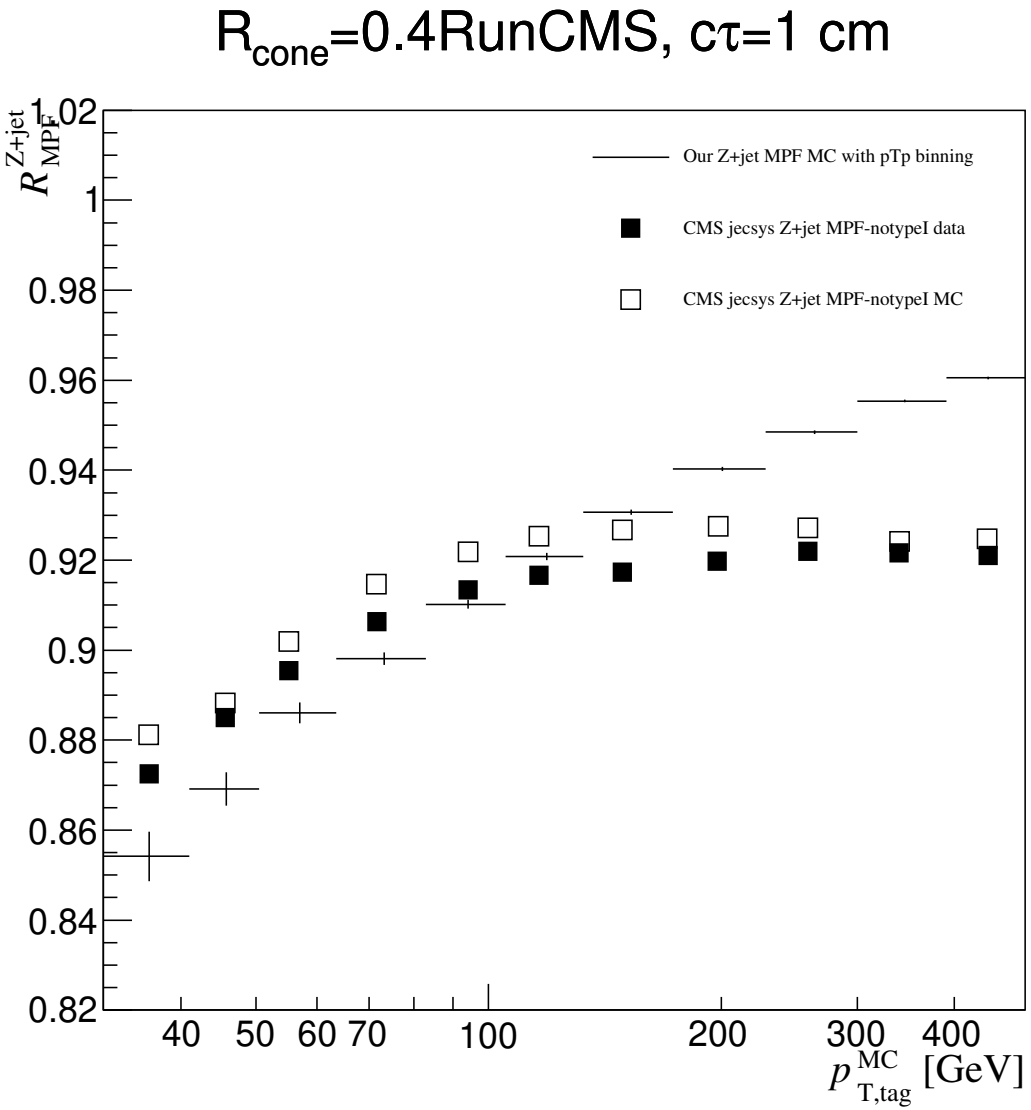
MPF plots

Mikael Myllymaki

August 29, 2019

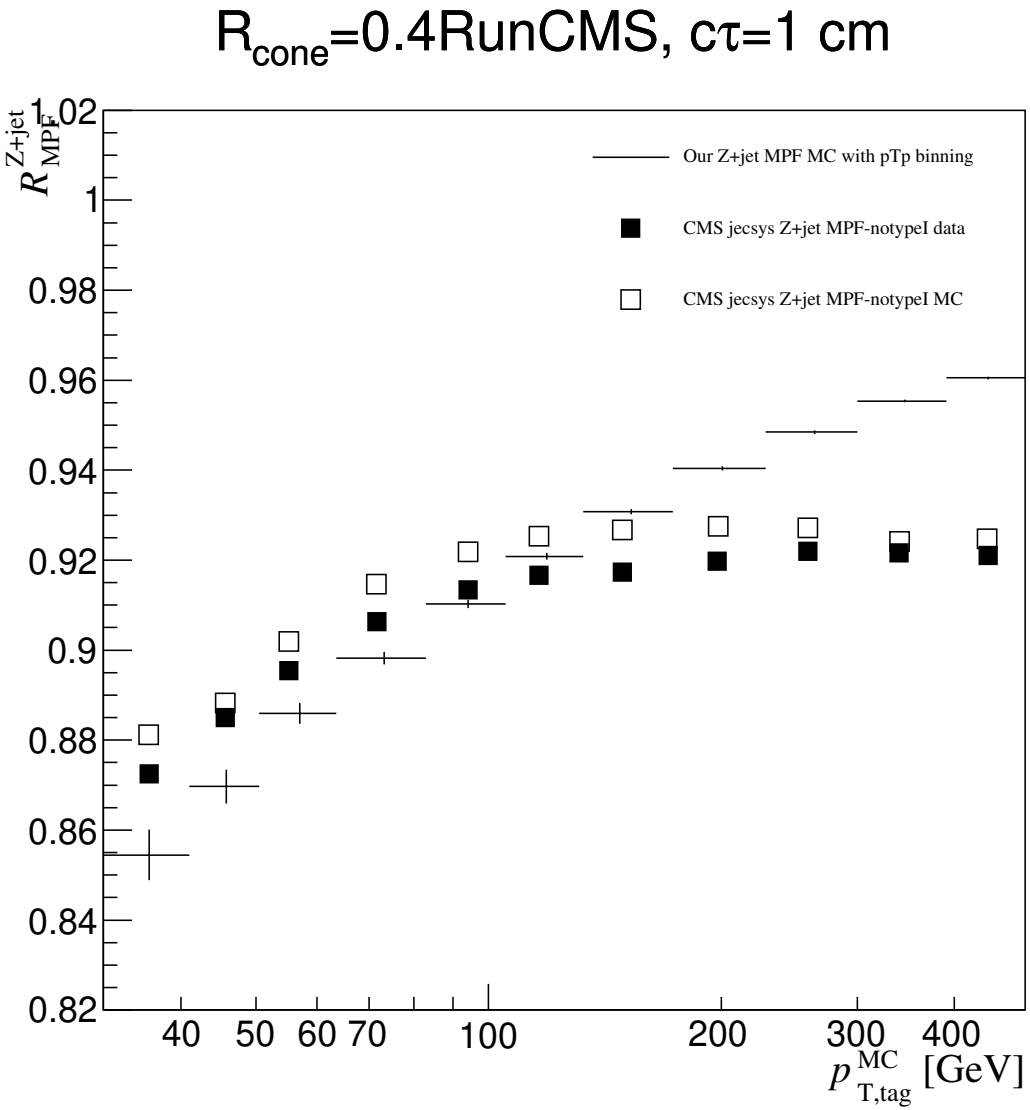
600k sample

Individual particles



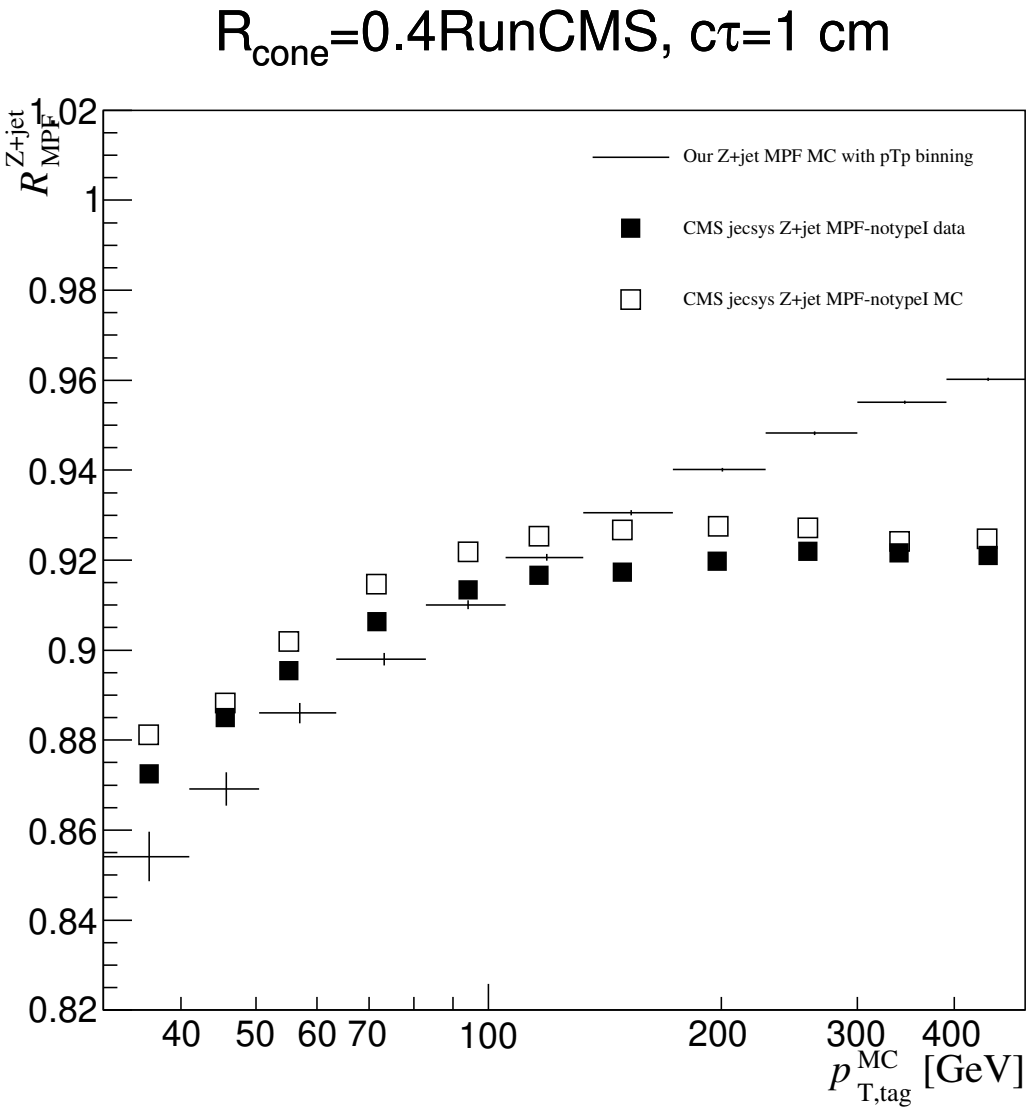
600k sample

Using cells



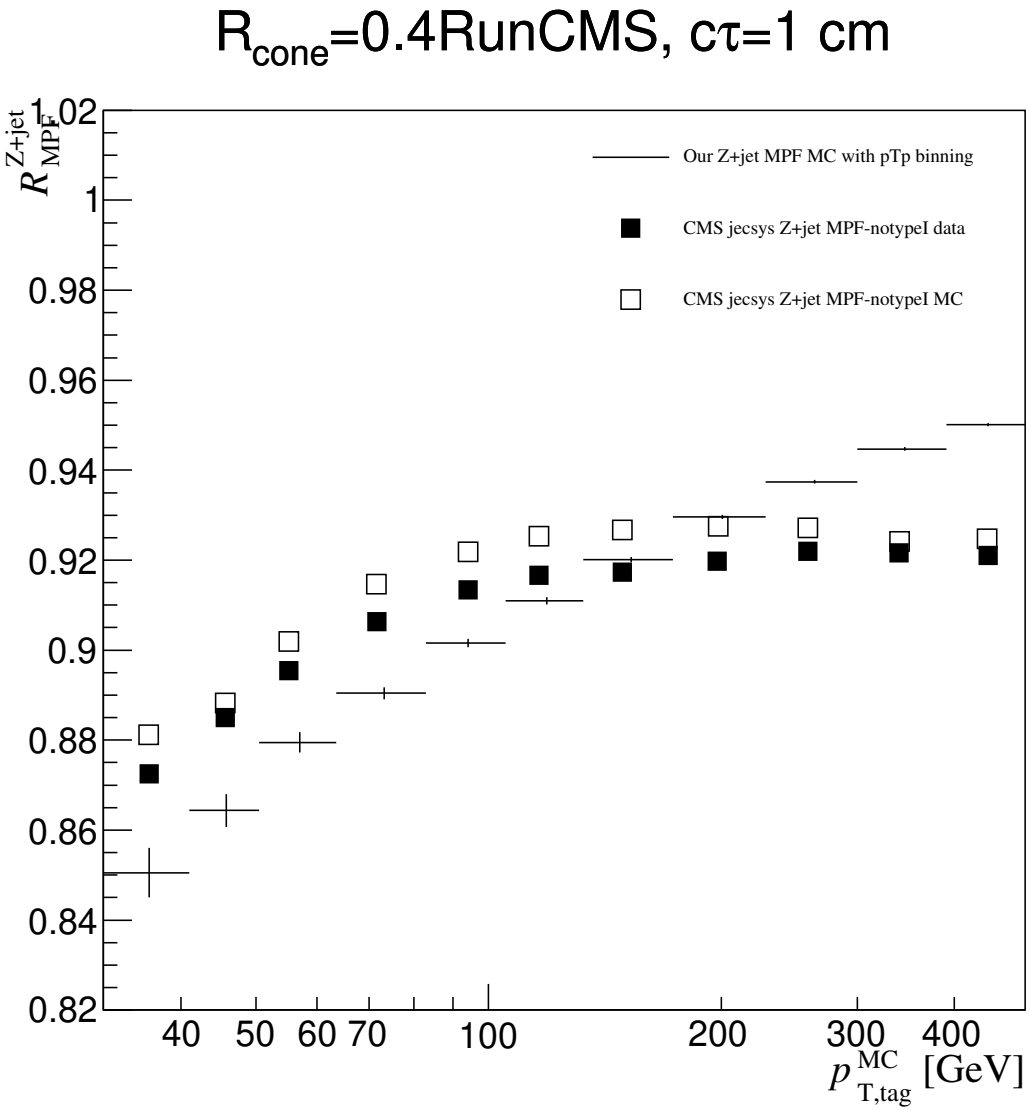
600k sample

Calorimeter response from energy



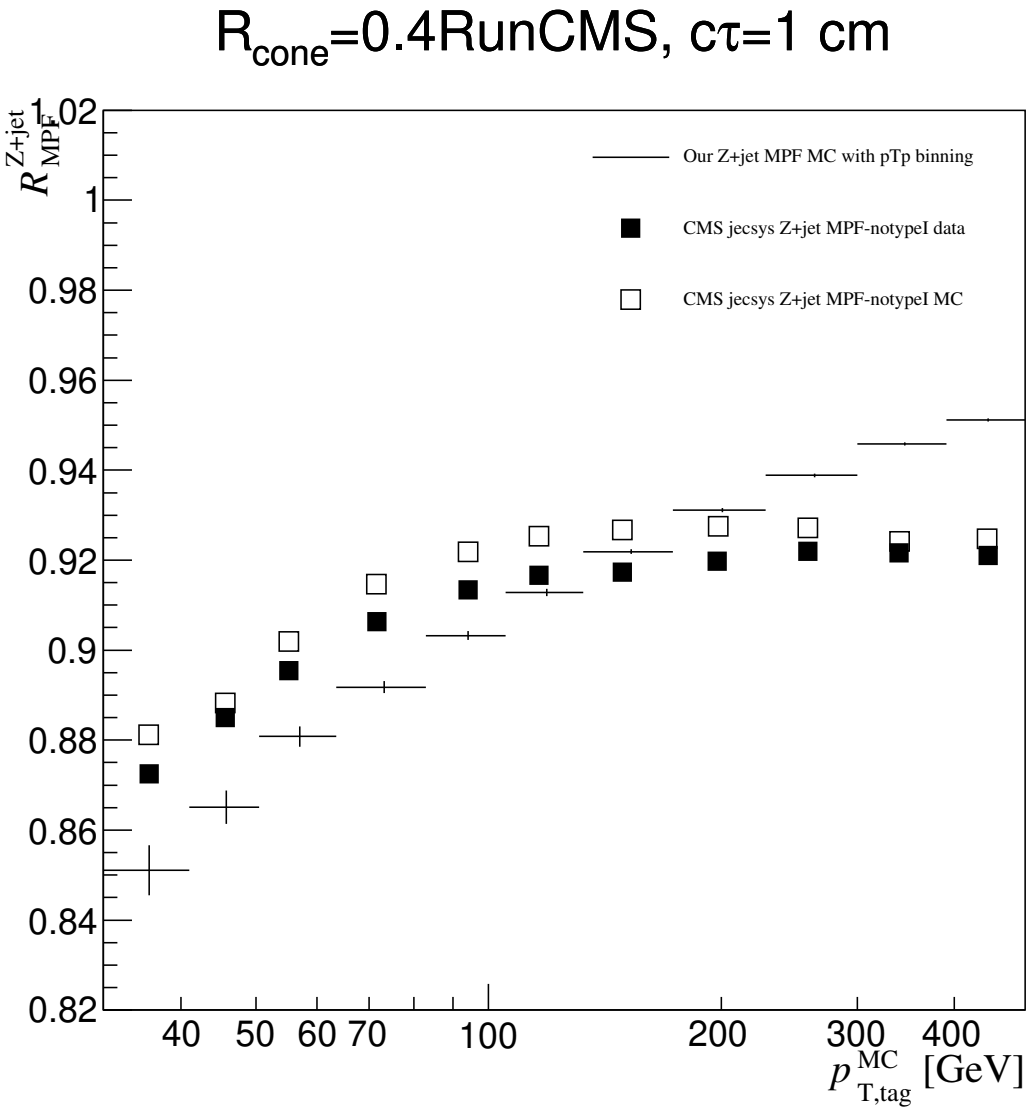
600k sample

Shadowing effect



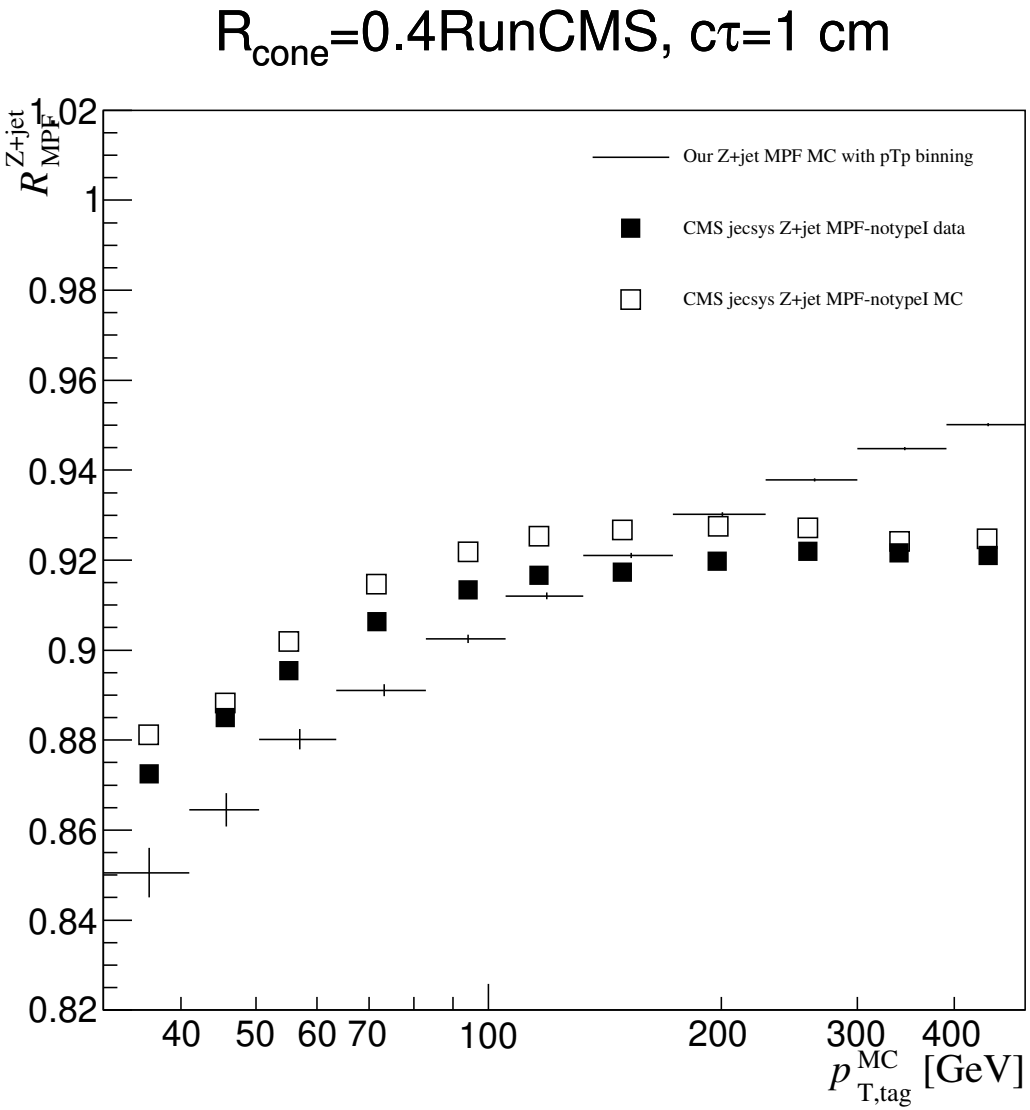
600k sample

Shadowing effect with track curvature



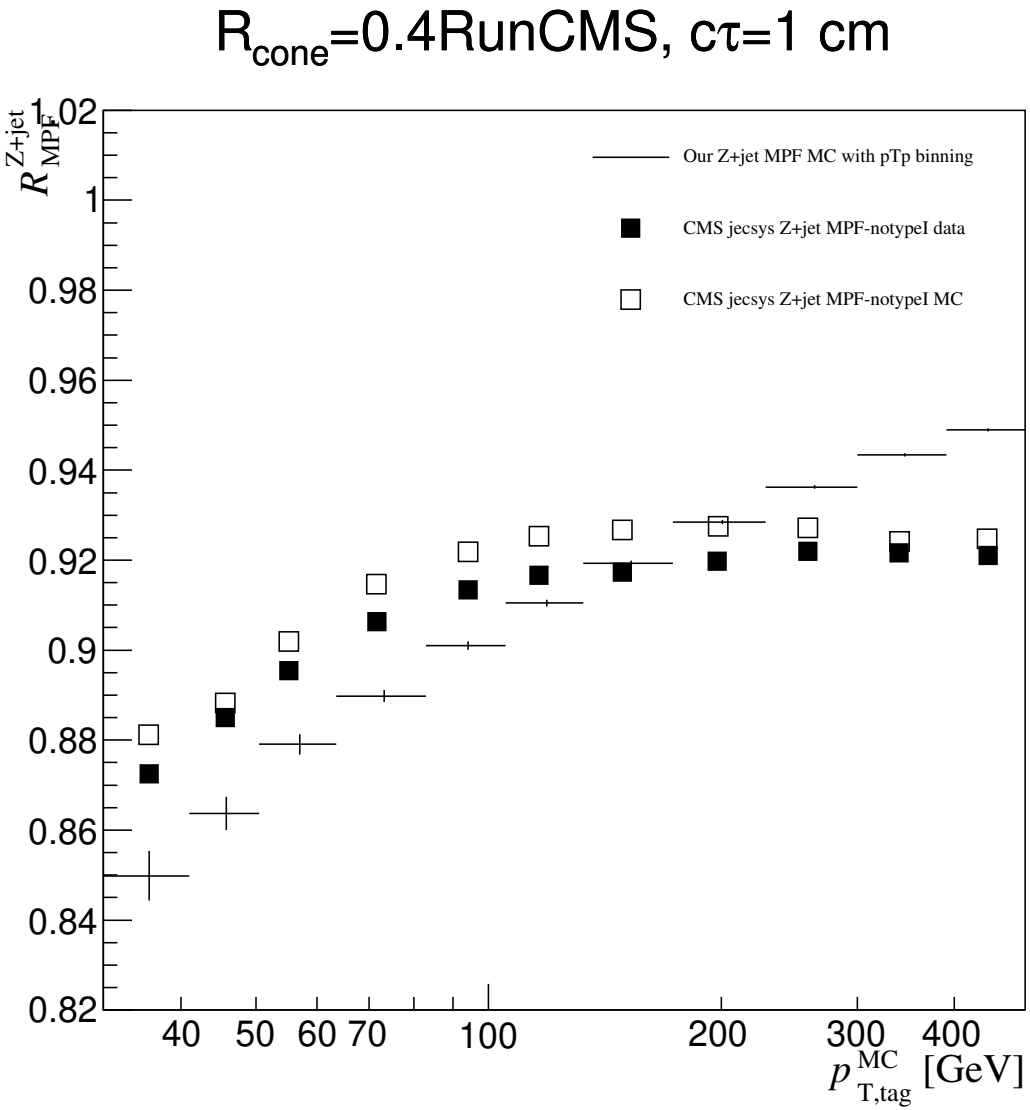
600k sample

Shadowing effect with track curvature and eff = 0.0003871 from particles



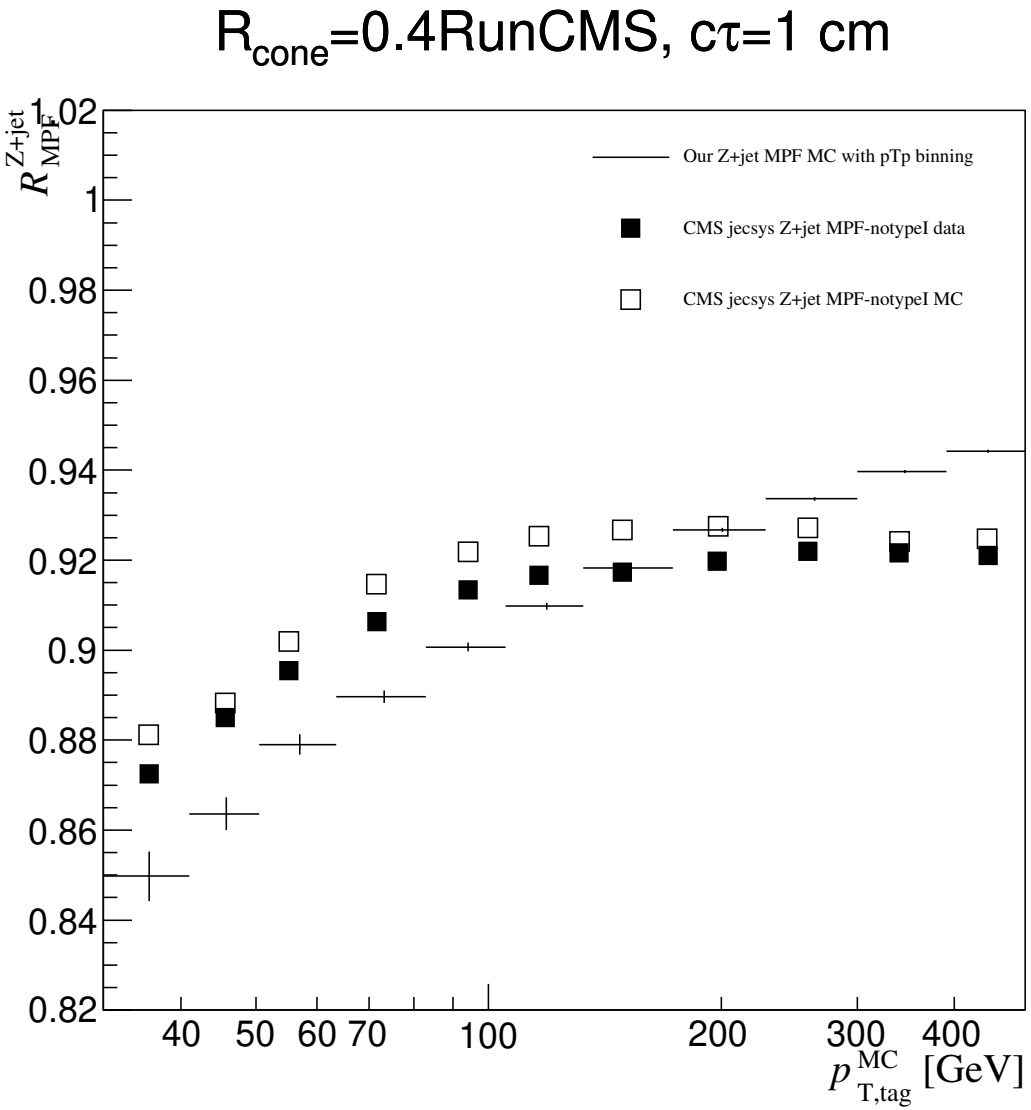
600k sample

Shadowing effect with track curvature and eff = 0.0003871 from particles chc to nh



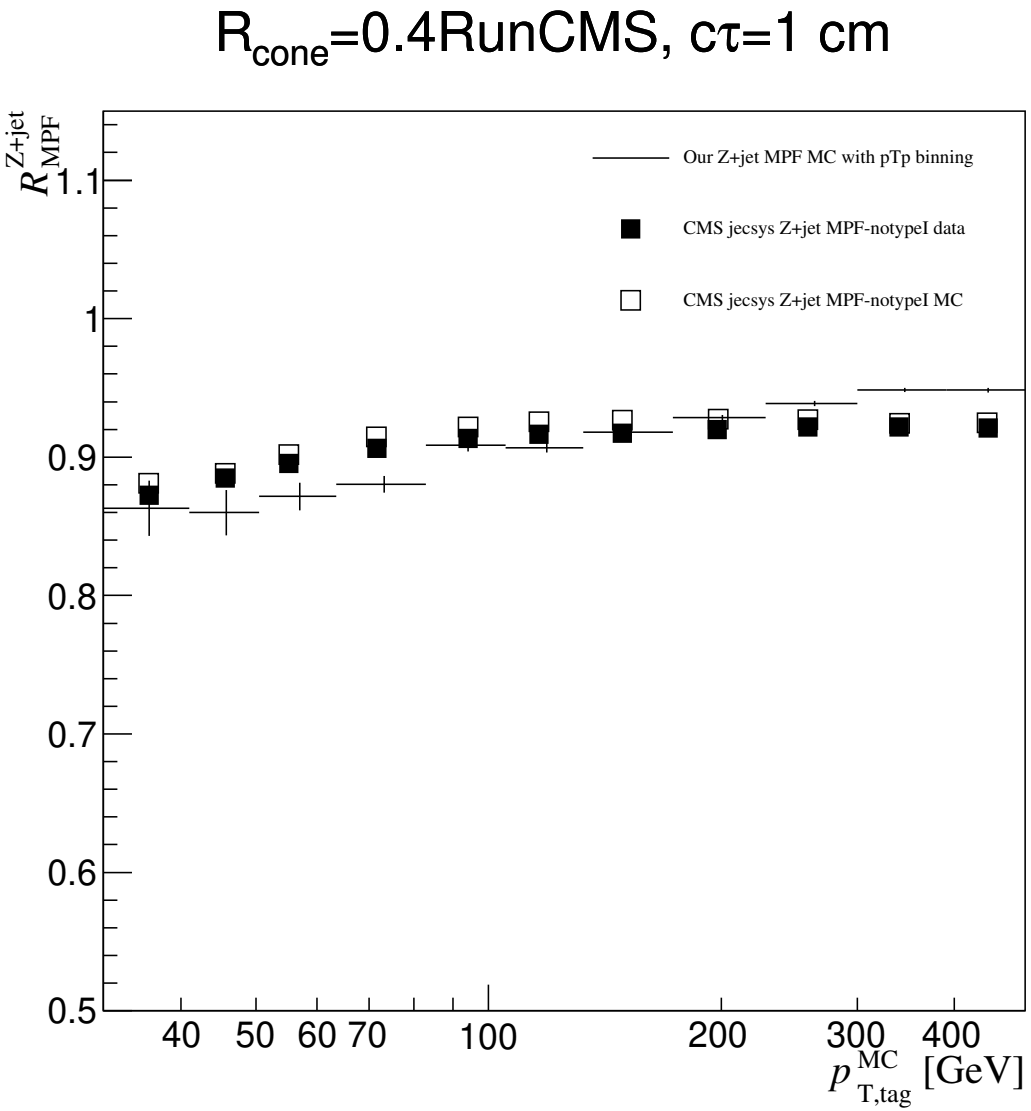
600k sample

Shadowing with track curvature and eff = 0.0003871 from cells



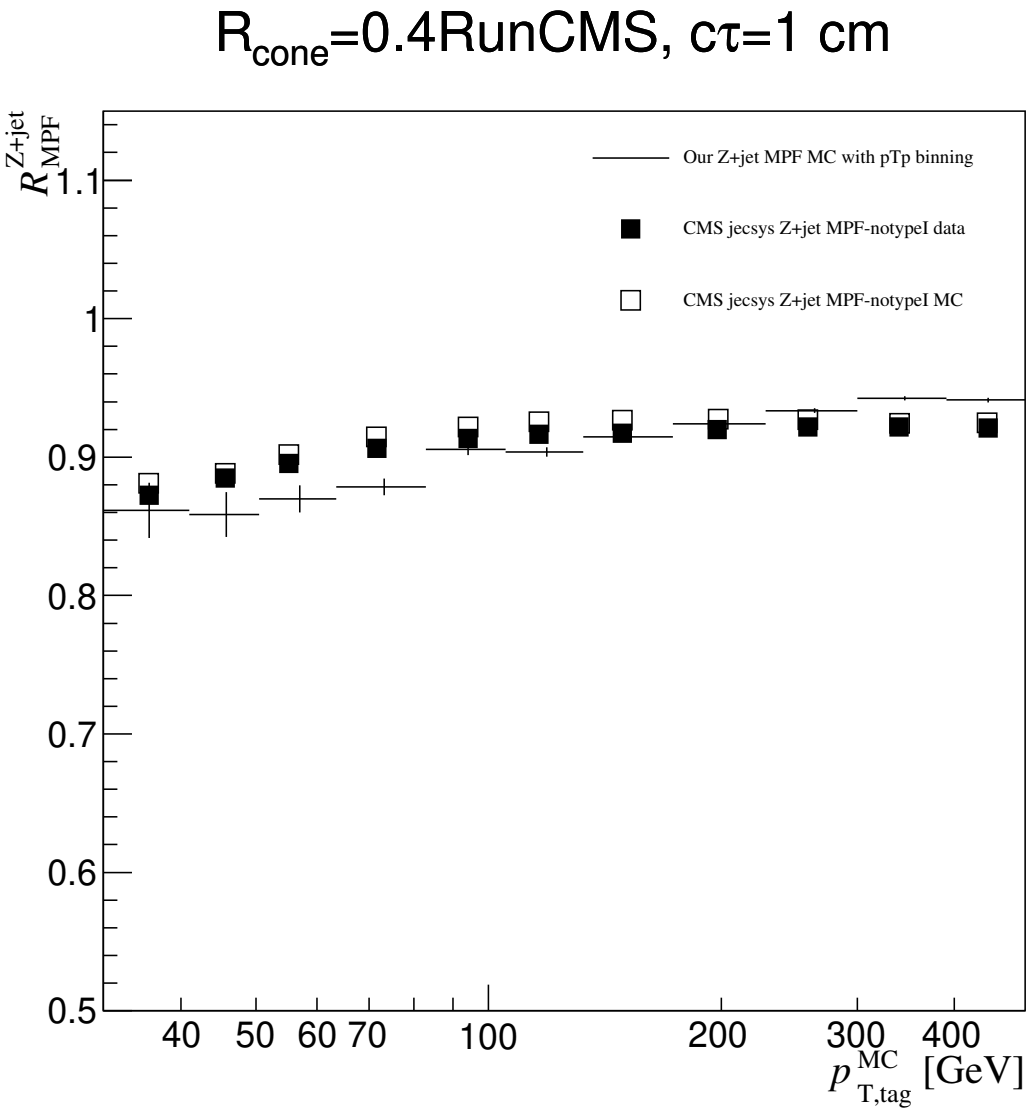
Tracking efficiency study (30k sample)

Tracking efficiency 1



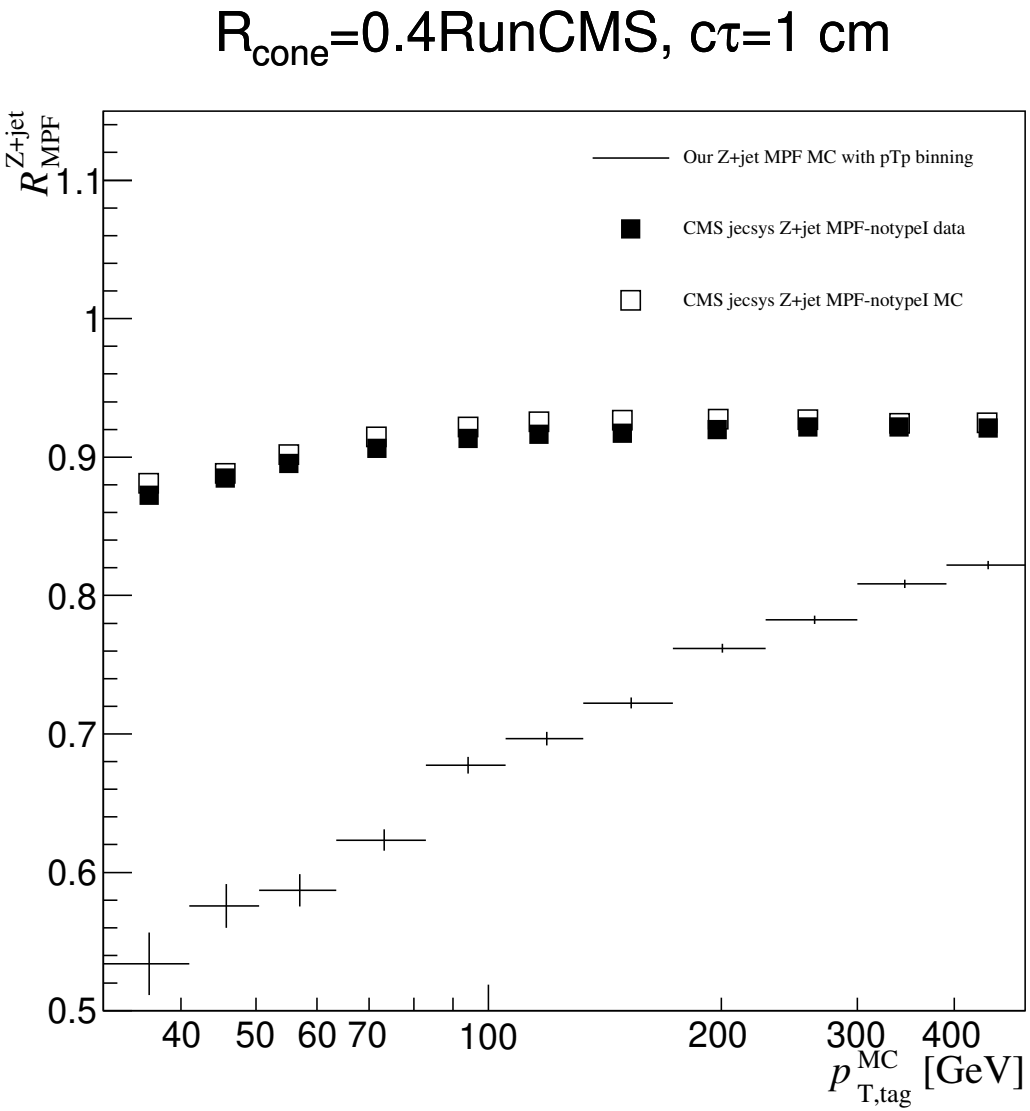
Tracking efficiency study (30k sample)

Tracking efficiency 1-0.0003781*pT



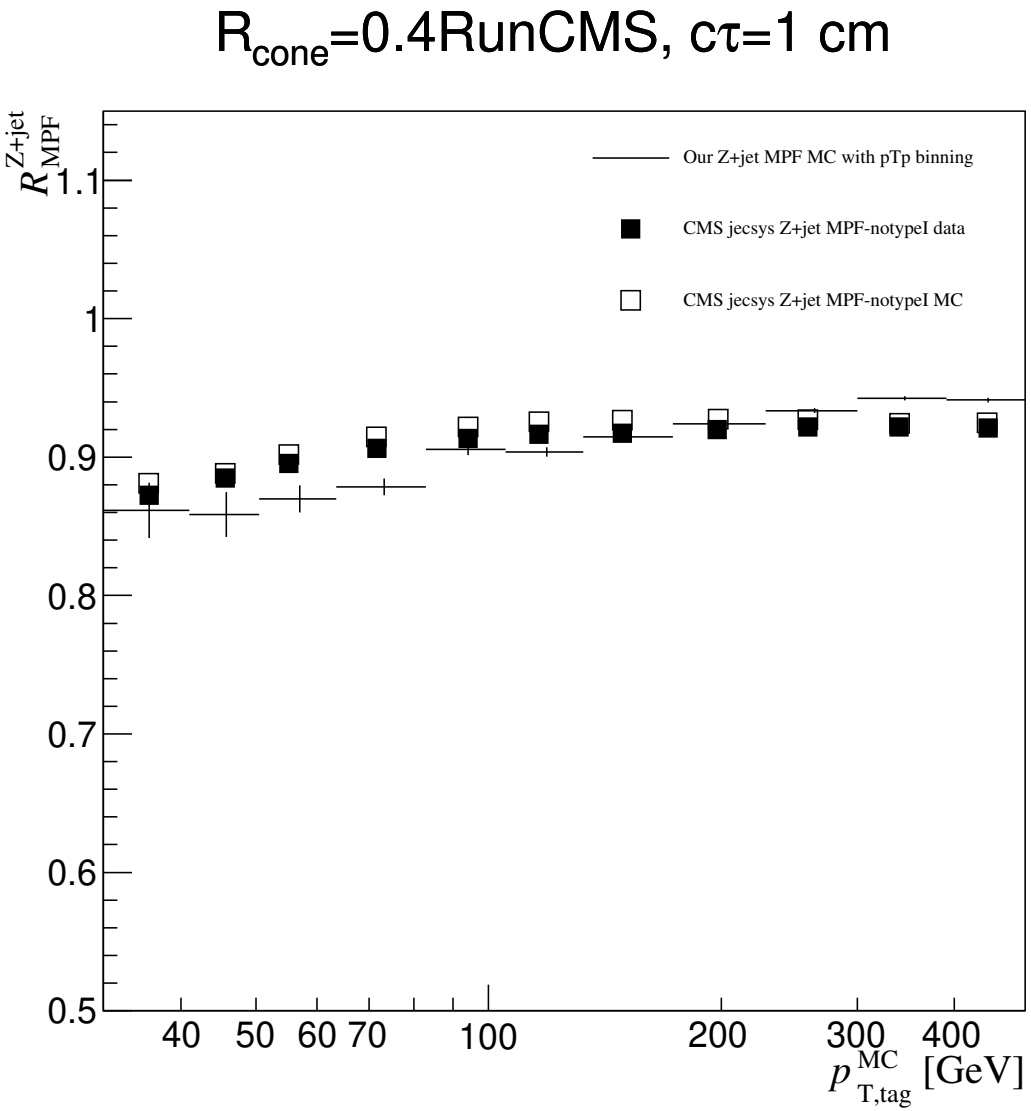
Tracking efficiency study (30k sample)

Tracking efficiency 0



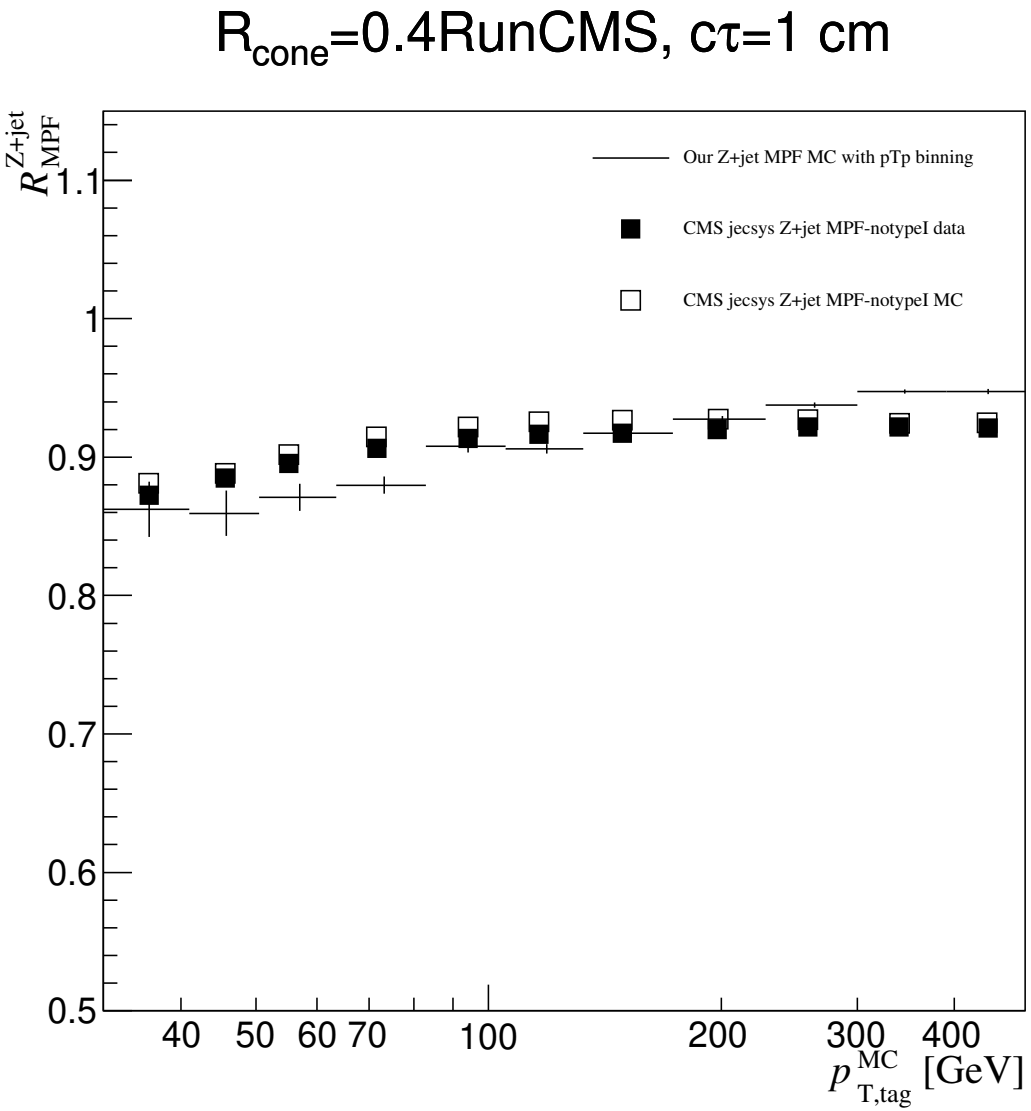
Tracking efficiency method (30k sample)

Tracking efficiency 1-0.0003781*pT from cells



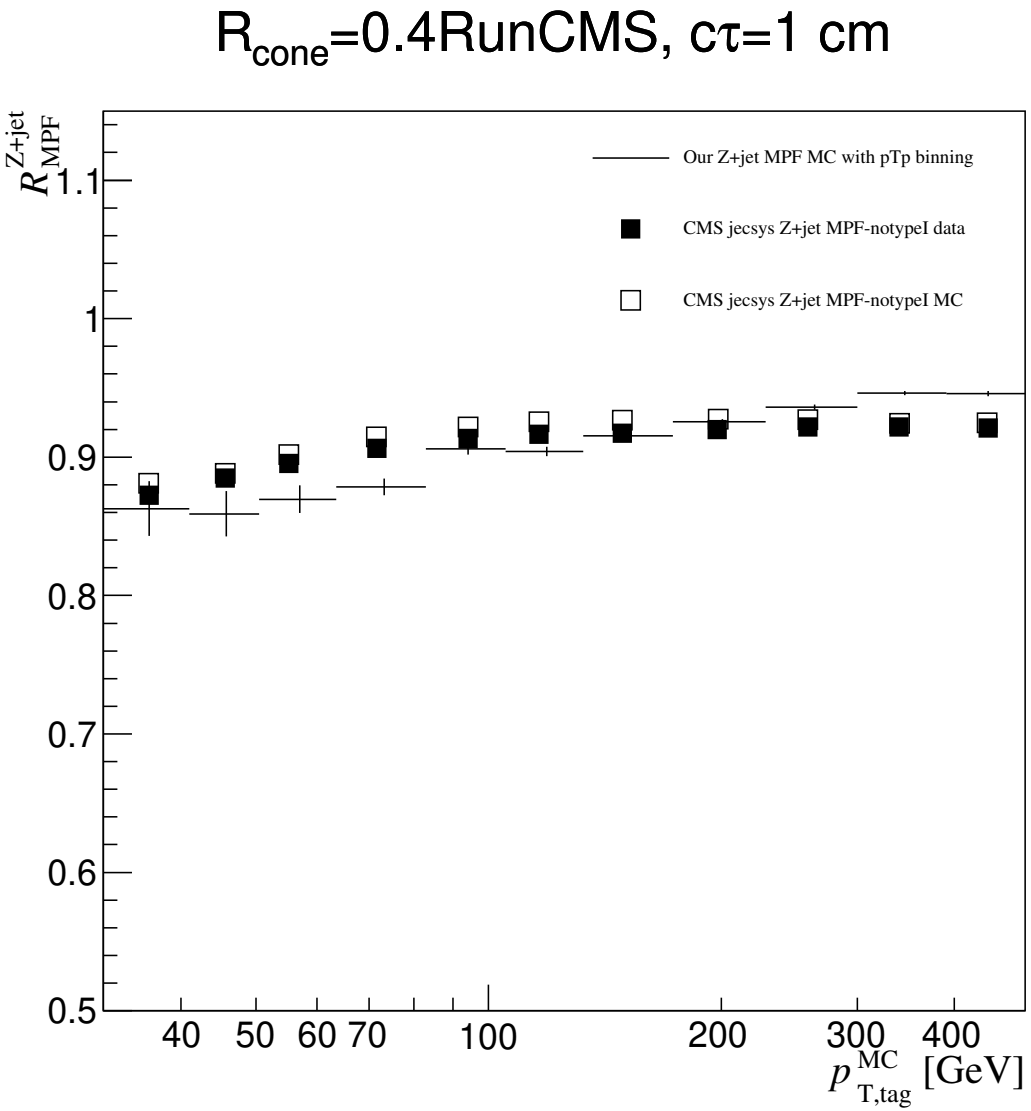
Tracking efficiency method (30k sample)

Tracking efficiency 1-0.0003781*pT from particles



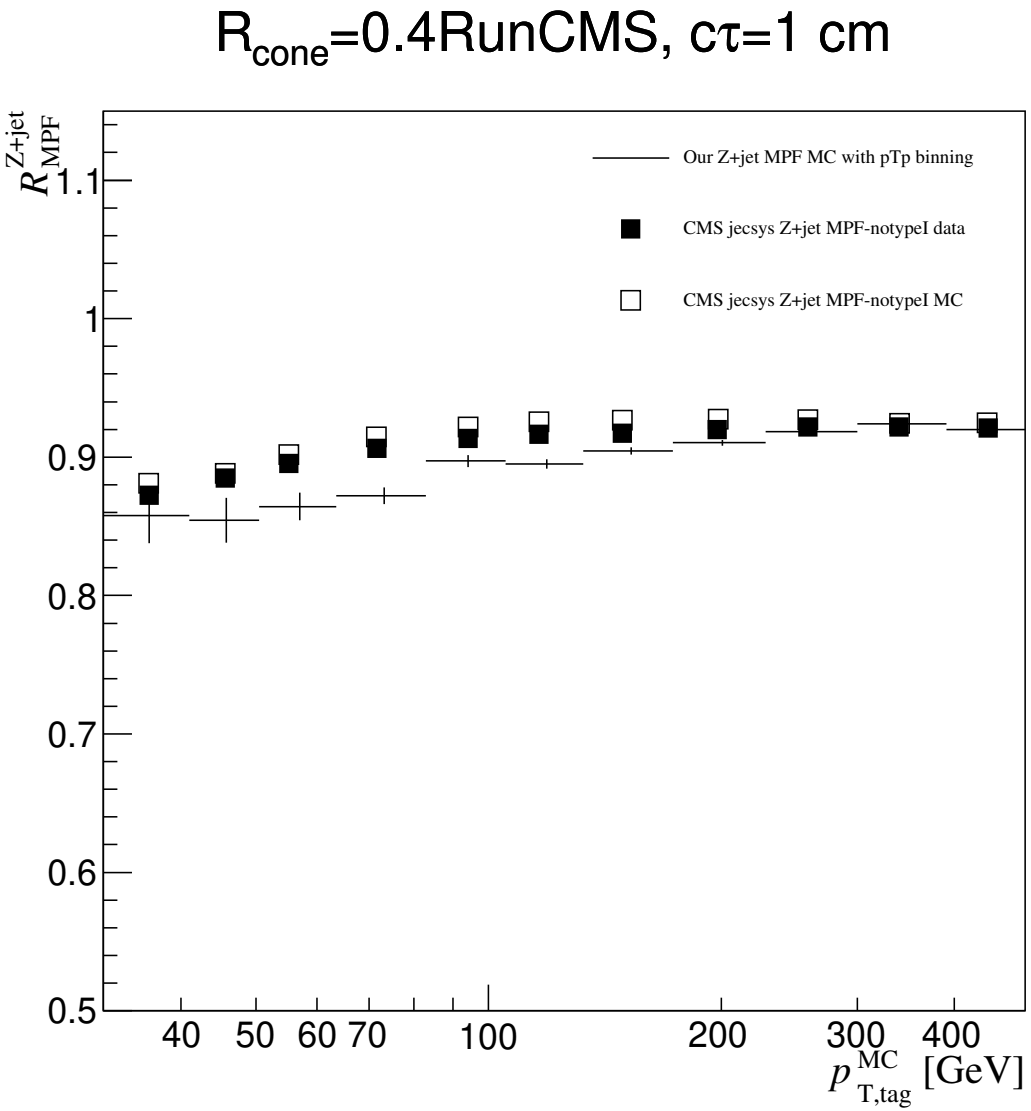
Tracking efficiency method (30k sample)

Tracking efficiency 1-0.0003781*pT from particles nh



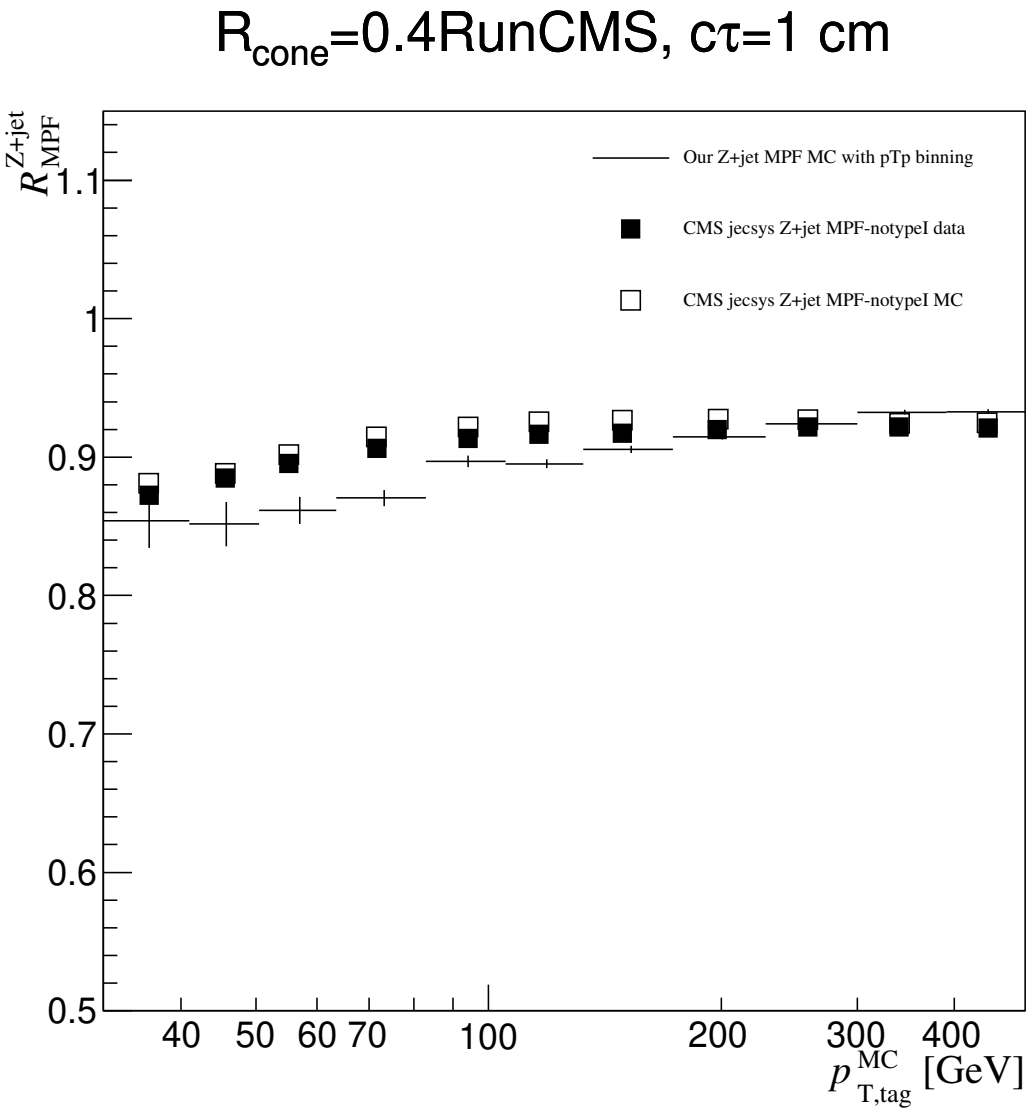
Tracking efficiency method (30k sample)

Tracking efficiency 1-4*0.0003781*pT from cells



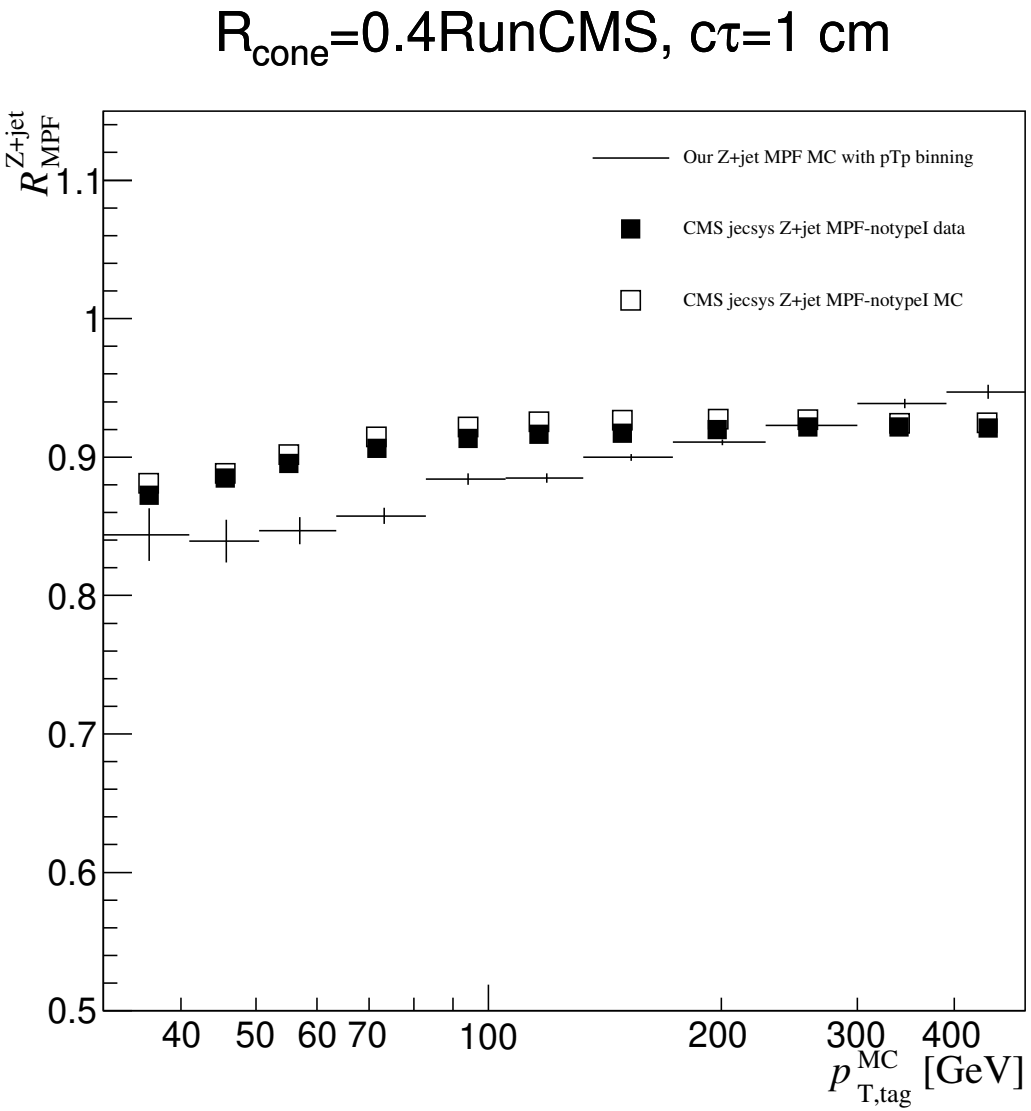
Tracking efficiency method (30k sample)

Tracking efficiency 1-15*0.0003781*pT from particles



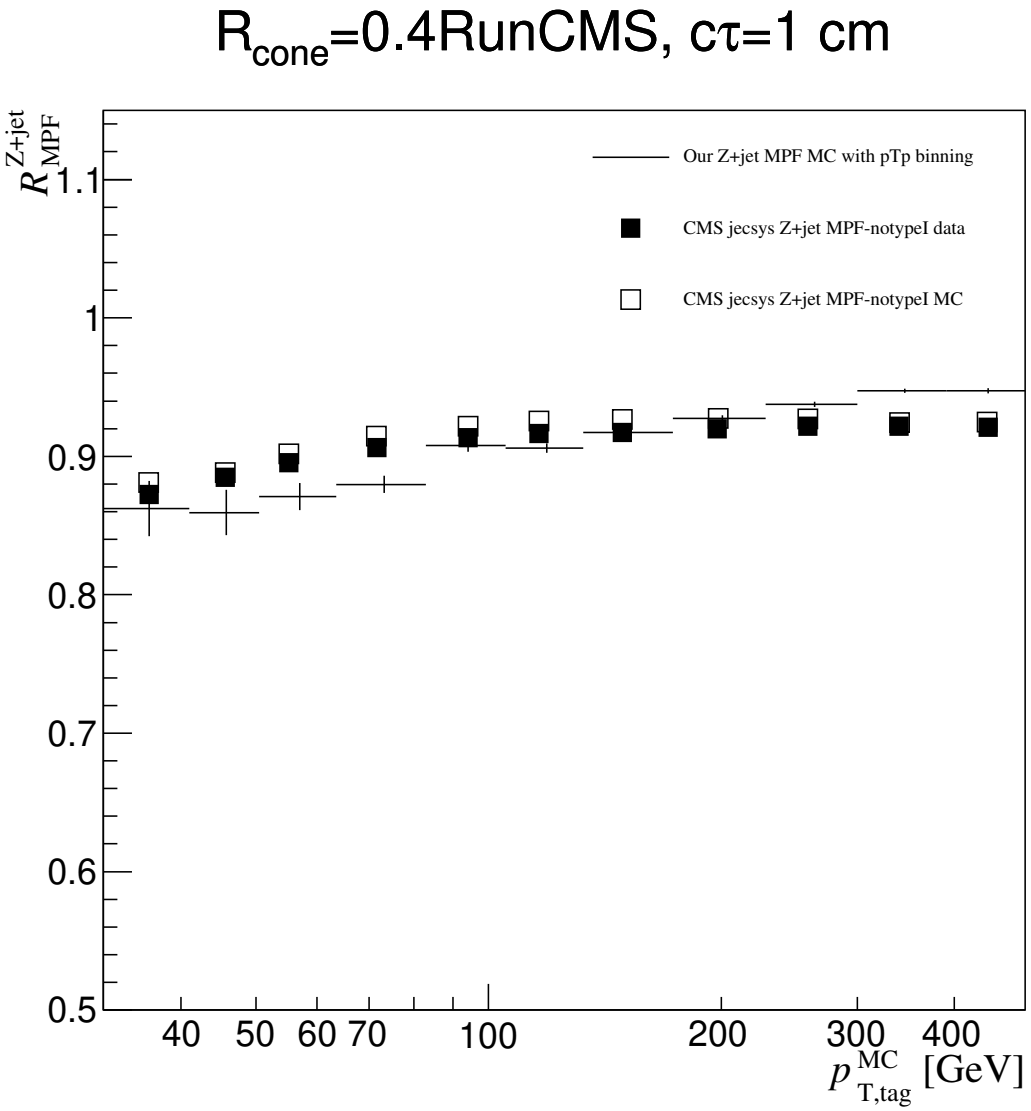
Tracking efficiency method (30k sample)

Tracking efficiency 1-15*0.0003781*pT from particles nh



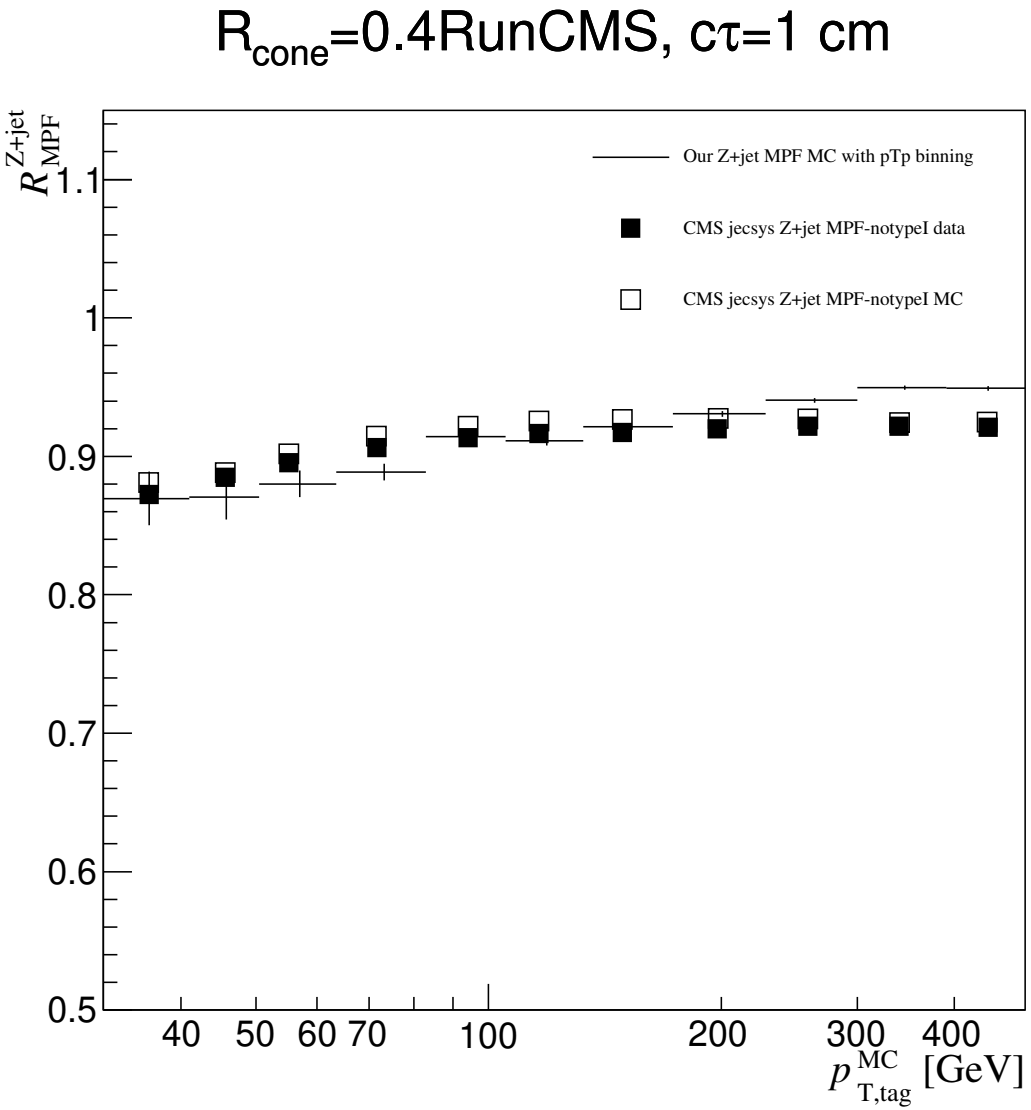
pT cut study

Normal pT cuts using shadowing and tracking efficiency 1-0.0003781*pT from particles



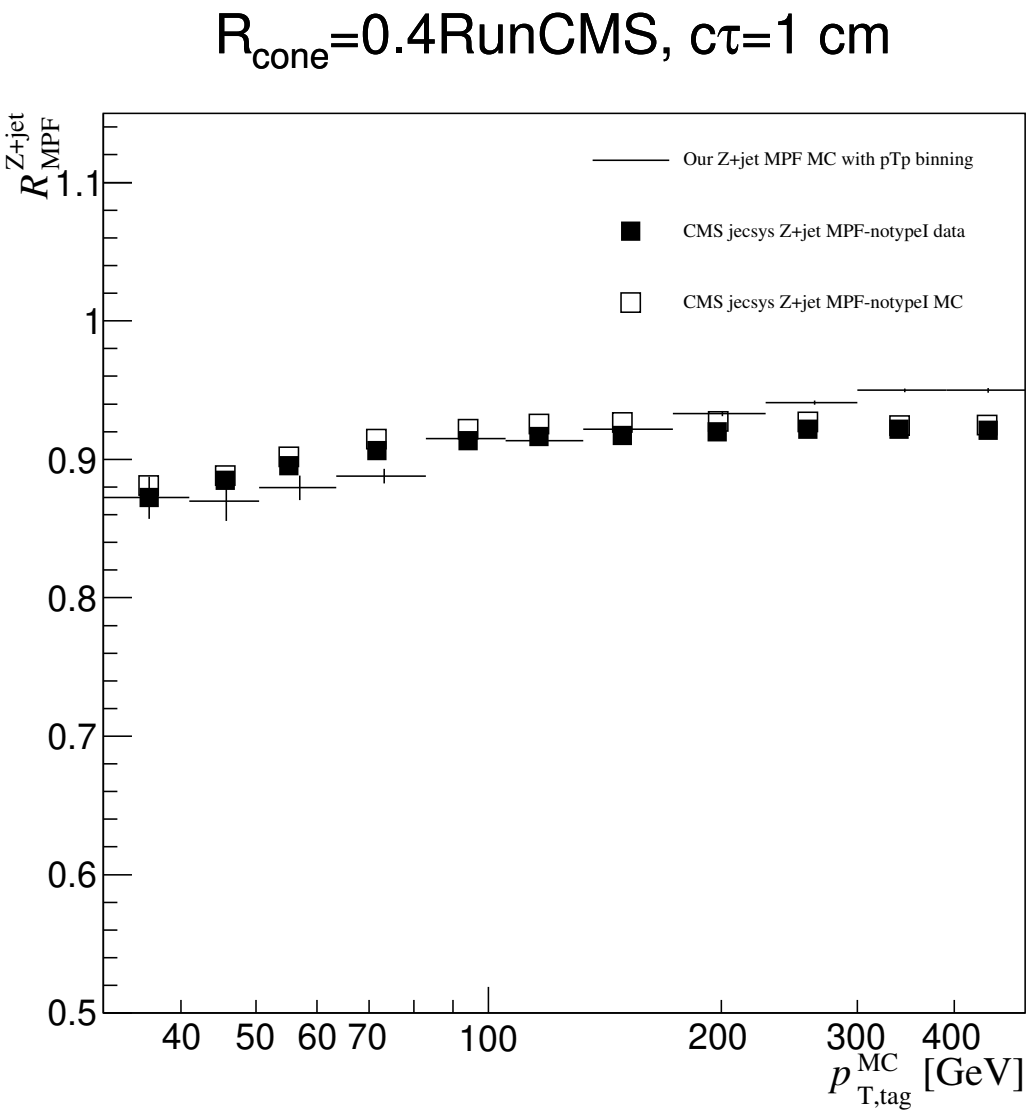
pT cut study

Remove pTreco <0.5 cut



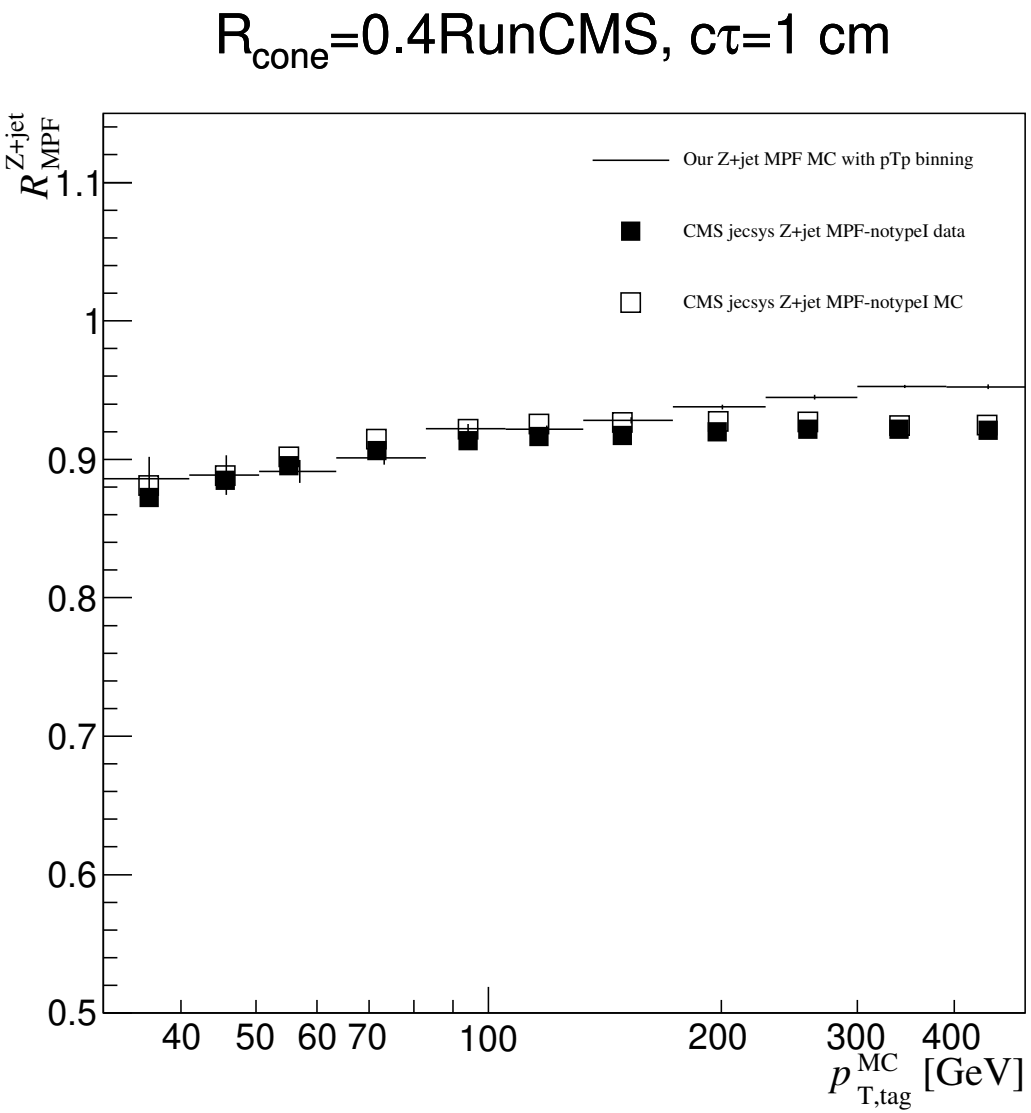
pT cut study

SPR stepfunction from pT to energy with pTreco <0.5 cut



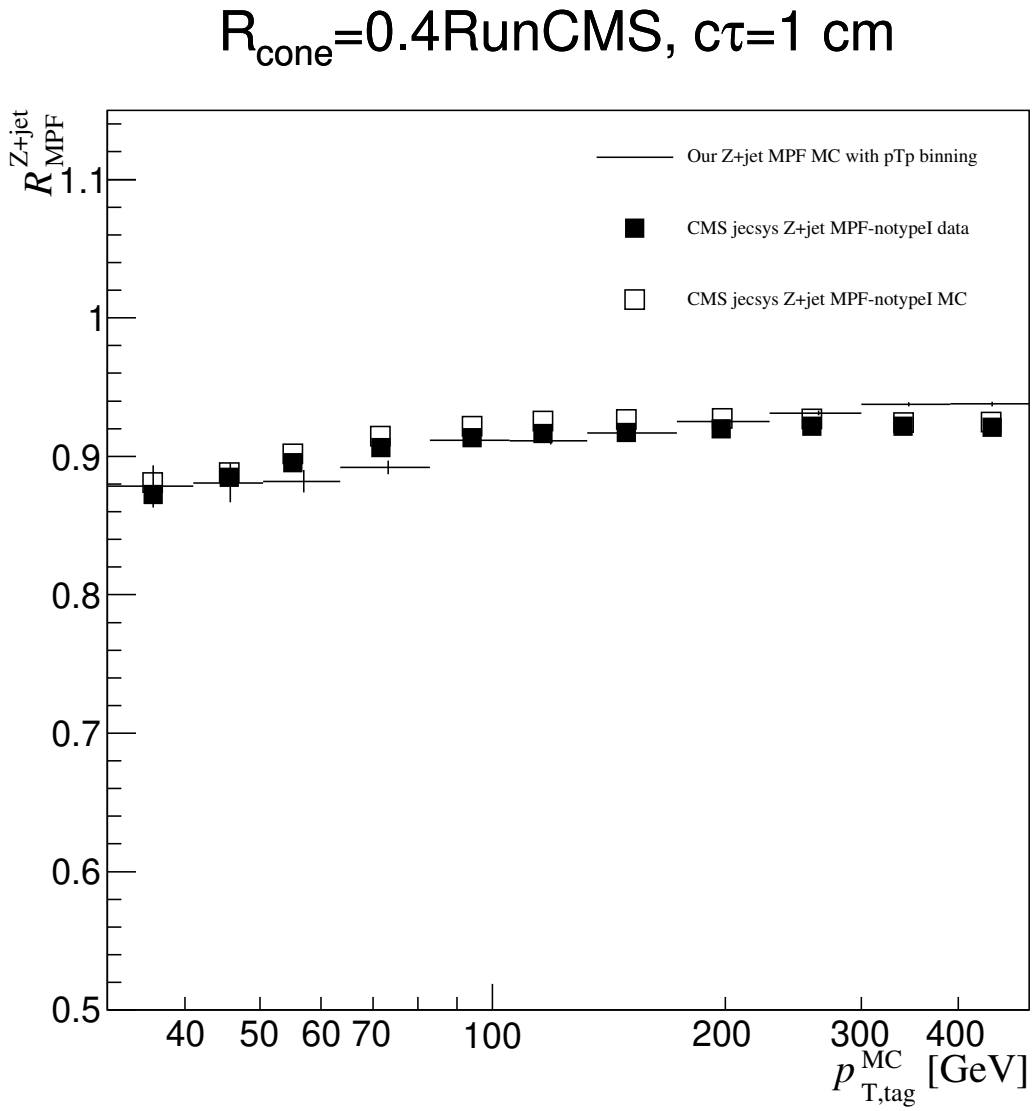
pT cut study

SPR stepfunction from pT to energy and remove pTreco <0.5 cut



pT cut study

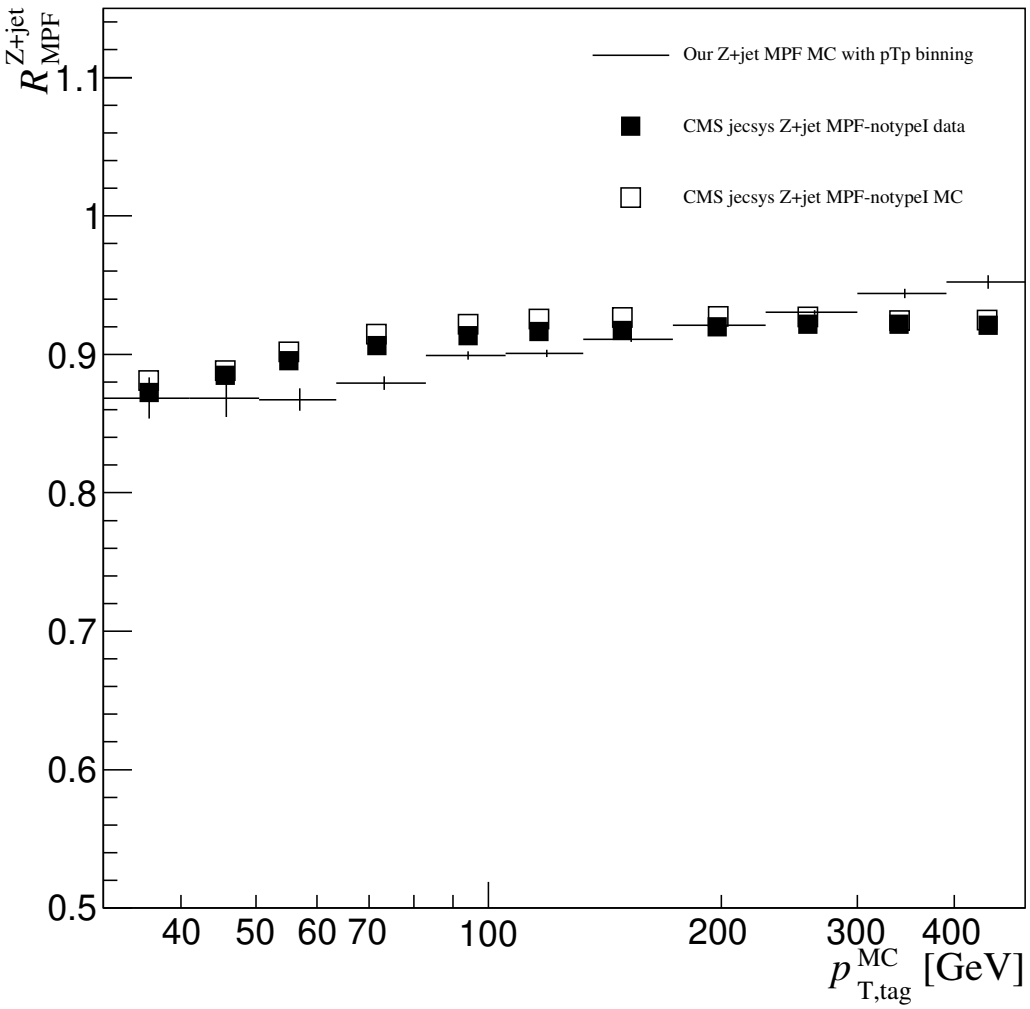
SPR stepfunction from pT to energy and remove pTreco <0.5 cut
Tracking efficiency 1-15*0.0003781*pT from particles



pT cut study

SPR stepfunction from pT to energy and remove pTreco <0.5 cut
Tracking efficiency 1-15*0.0003781*pT from particles nh

R_{cone}=0.4RunCMS, cτ=1 cm



pT cut study

SPR stepfunction from pT to energy and remove pTreco <0.5 cut

Tracking efficiency 1-4*0.0003781*pT from cells