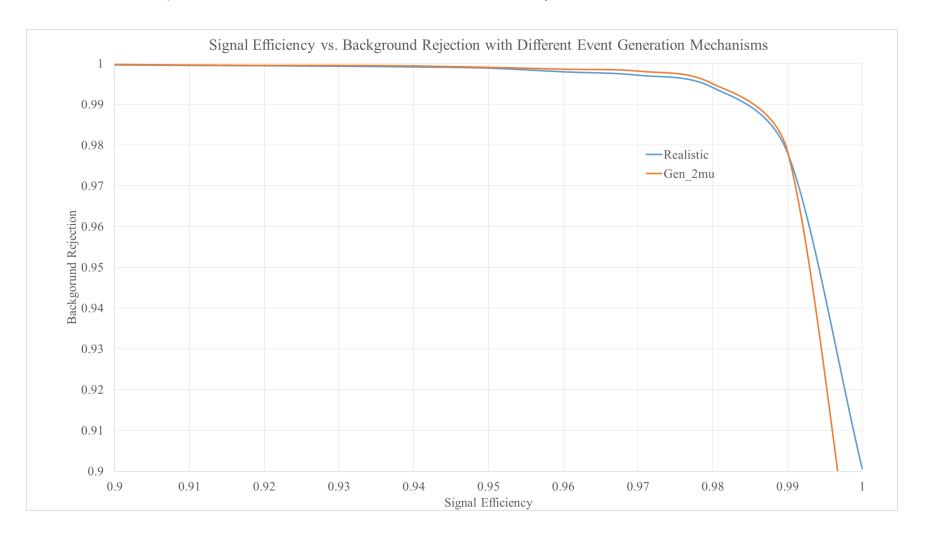
Specifications of simulation:

Realistic distributions: 100k pion and muon events each

Gen_2mu: 20k pion and muon events each, generated using Gen_2mu. Angular cuts at 0.8° and 4.61°, energy cuts at 5 and 6.3 GeV

Detector Geometry: 12 individual MWPCs, with 10 cm of iron between every detector (110 cm iron total)



Plots of Realistic Events Thrown Parameters

Thrown Energy Sum Reconstructed Energy Sum pim_E_Thrown+pip_E_Thrown pim_E+pip_E {(pip_E+pim_E)<10} htemp 4000 htemp Entries 48336 40547 Entries Mean Mean 4.608 3500 900 RMS 2.984e-06 2.056 RMS 800 3000 700 2500 600 2000 500 1500 400 300 1000 200 500 100 .499975.4999755.499985.4999855.499995 5.5 5.5000055.50001 pim_E_Thrown+pip_E_Thrown 10 pim_E+pip_E pip_theta_Thrown htemp Entries 69498 1800 3.226 1.522 Mean RMS 1600 1400 Thrown Angular 1200 Distribution 1000 800 600 400 200

pip_theta_Thrown