Report on tracking
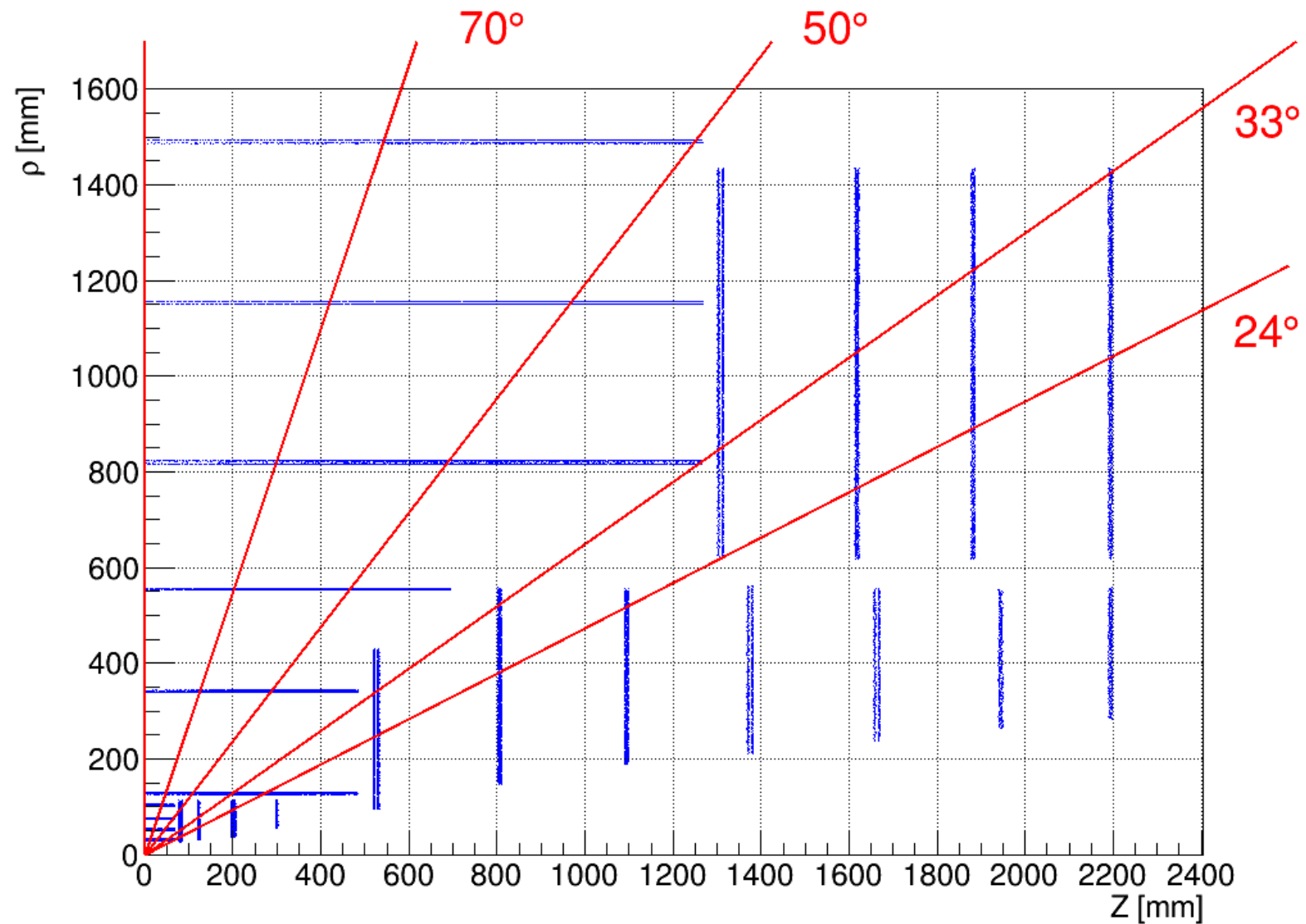
Massimo

August 4, 2020
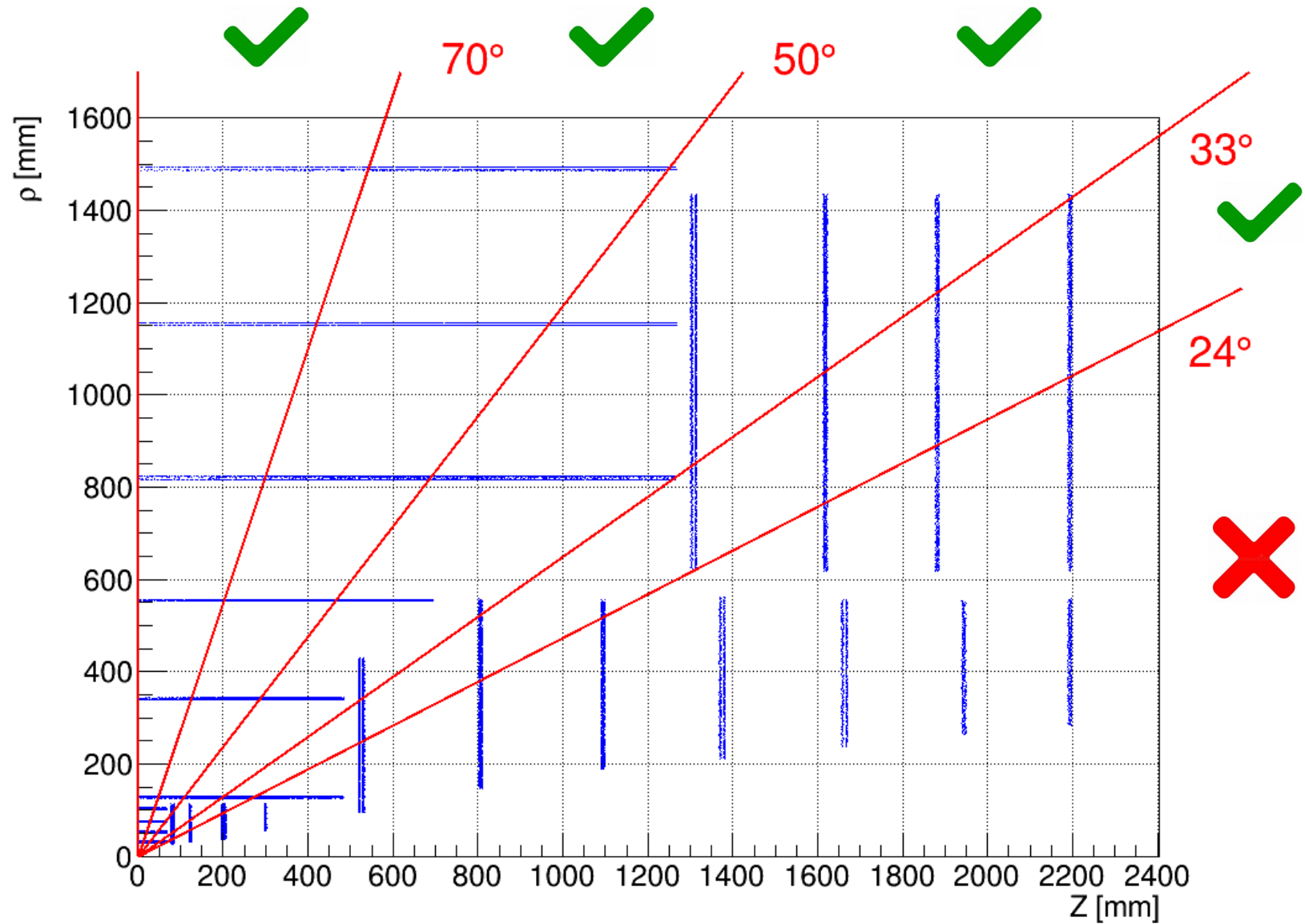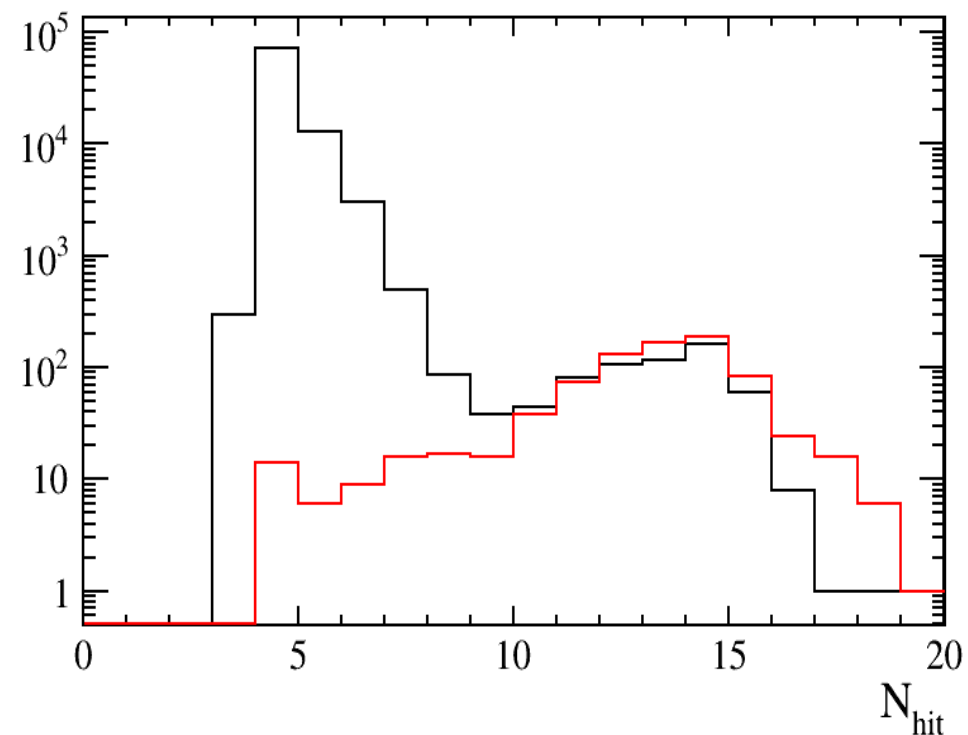
Track finding ϑ-regions

Test on a muon gun sample

track selection:
$N_{hit} > 6$
$\chi^2/ndf < 5$
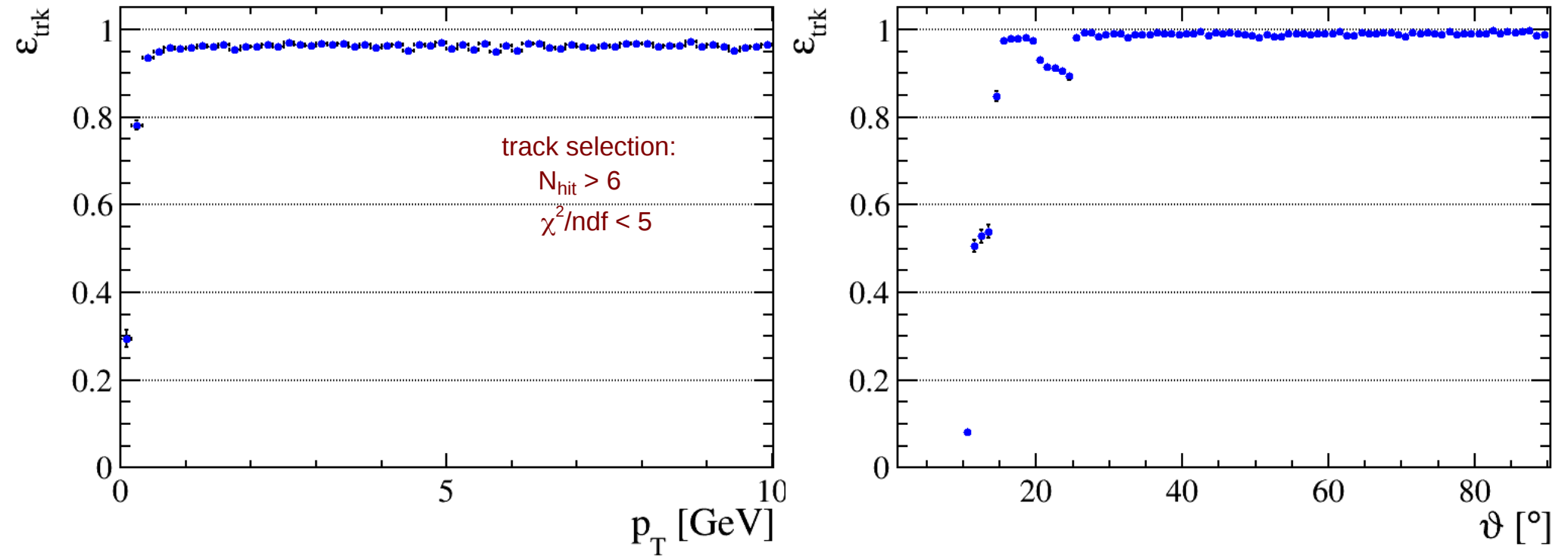
Muons + BIB

BIB tracks' χ^2/ndf and N_{hit}

BIB tracks' p$_T$, φ, ϑ

track selection:

$N_{hit} > 6$

$\chi^2/ndf < 5$

h_pt_reco	
Entries	2158
Mean	2.312
Std Dev	2.723

h_phi_reco	
Entries	2158
Mean	1.738
Std Dev	104

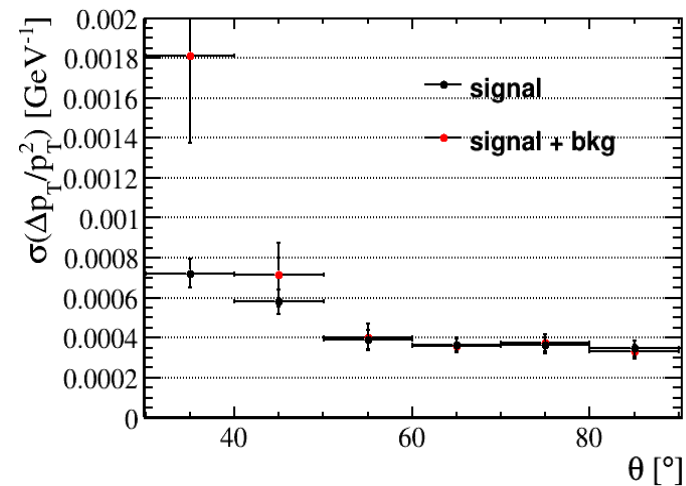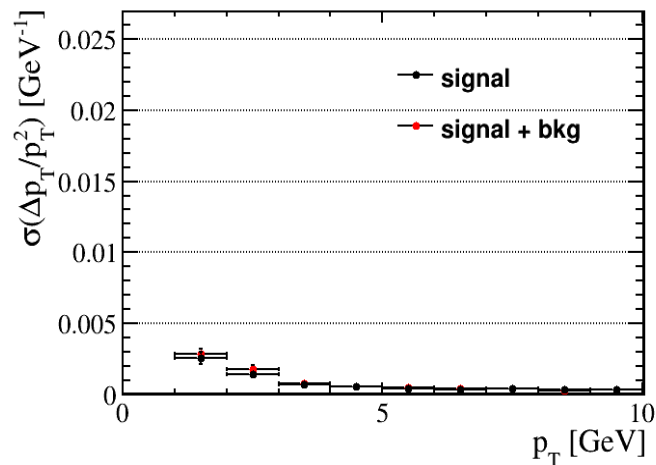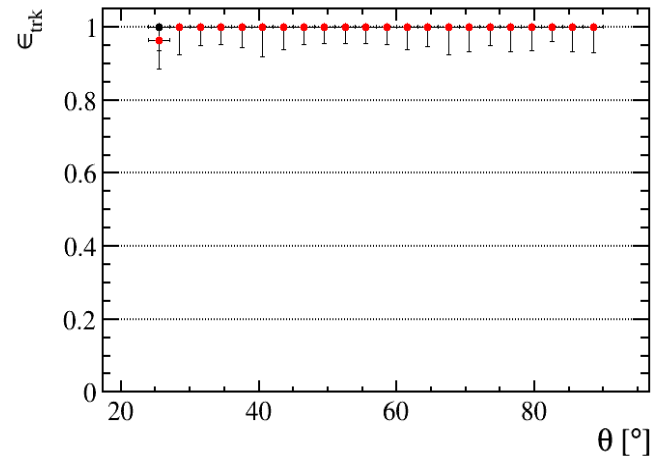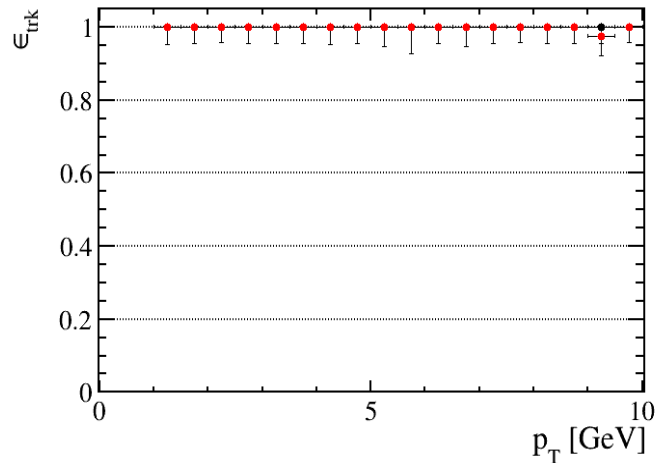| h_theta_reco	
Entries	2158
Mean	49.99
Std Dev	16.95
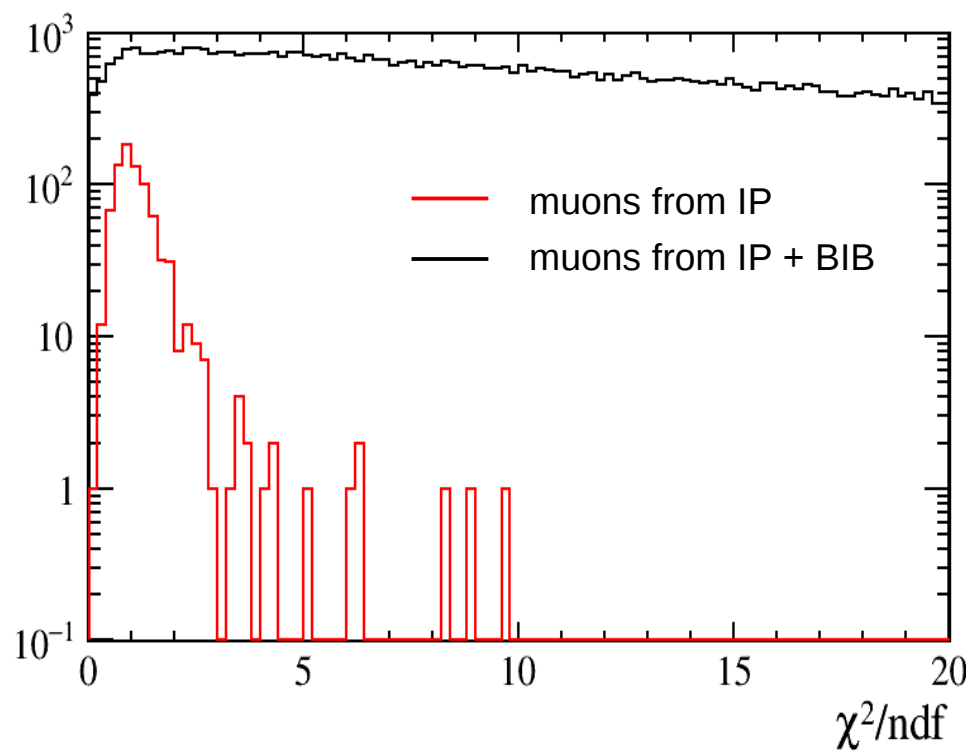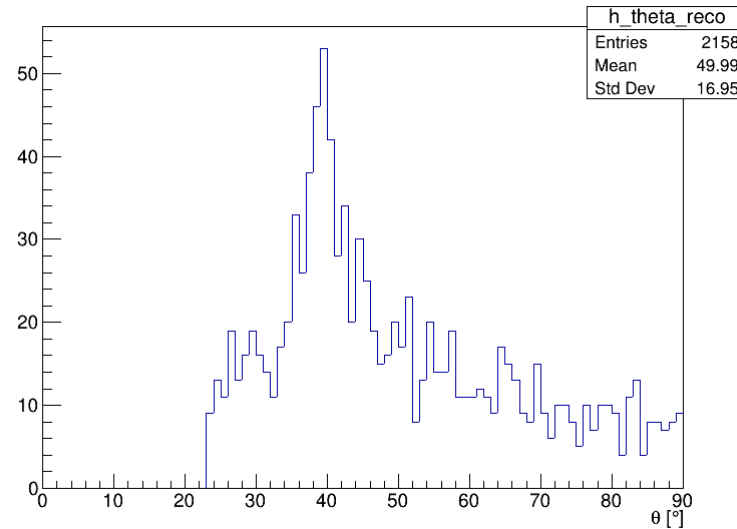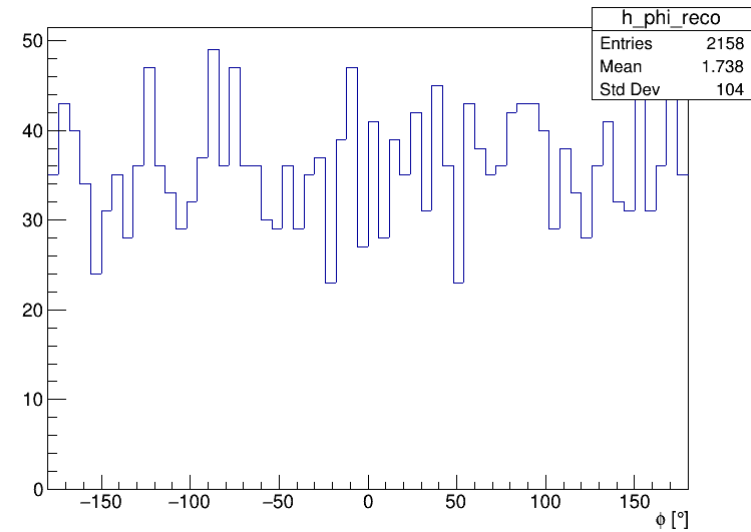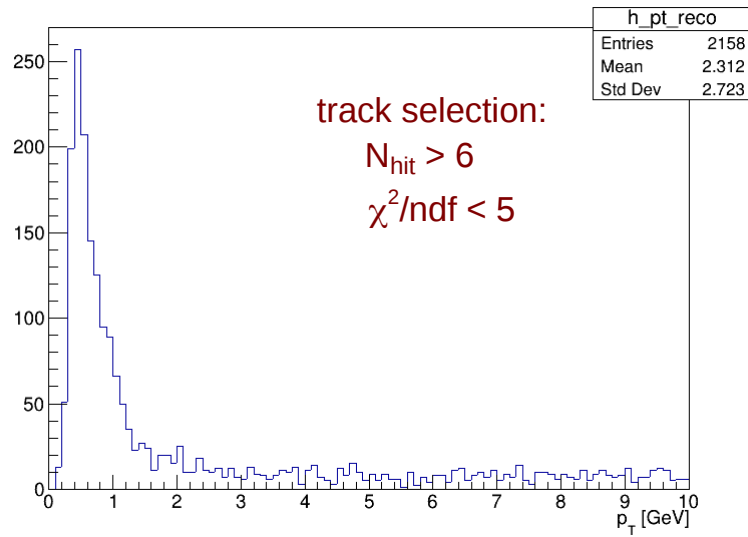
trk efficiency and resolution w/ BIB
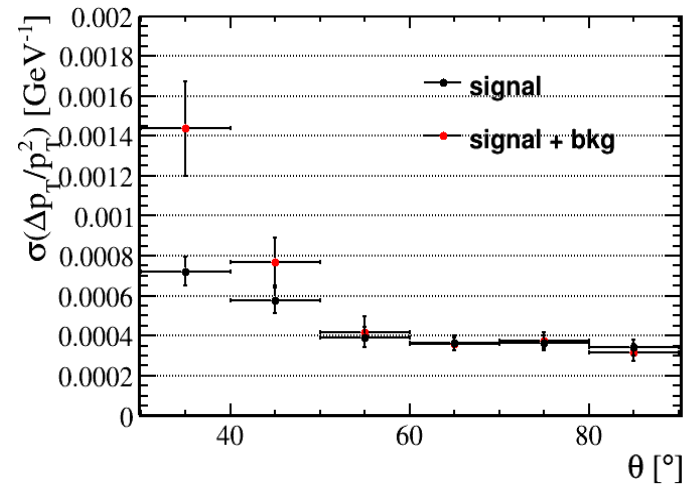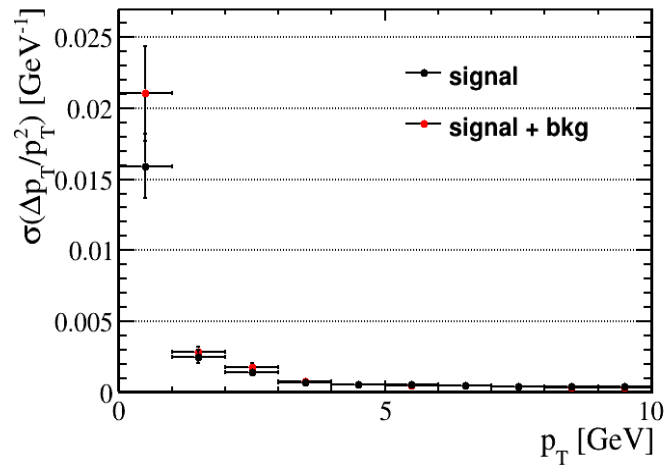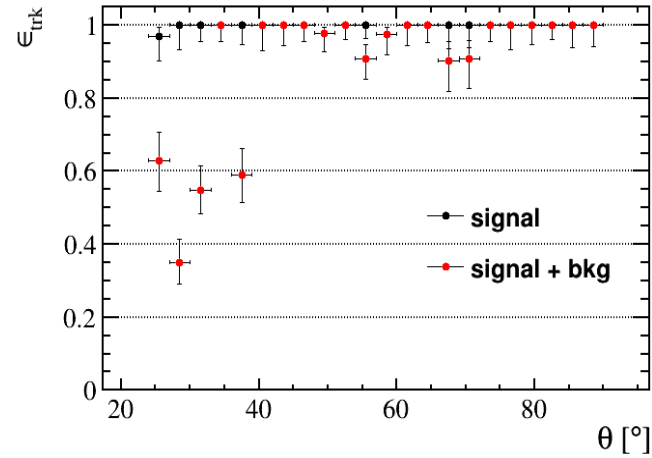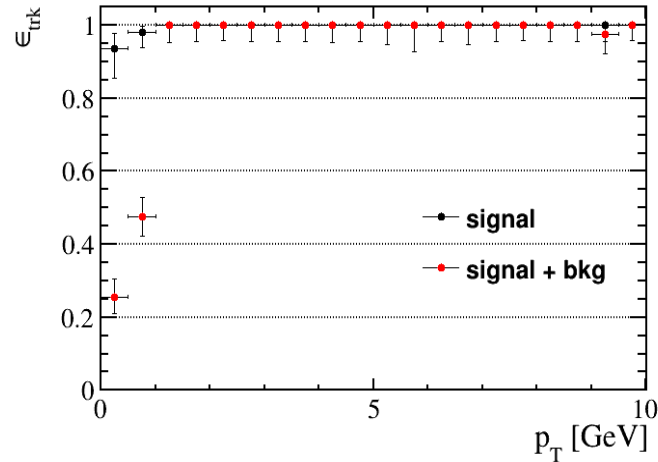
signal = muons from IP
signal + bkg = muons from IP superimposed to the beam-induced bkg

trk efficiency and resolution w/ BIB

p_T > 1 GeV

signal = muons from IP
signal + bkg = muons from IP superimposed to the beam-induced bkg