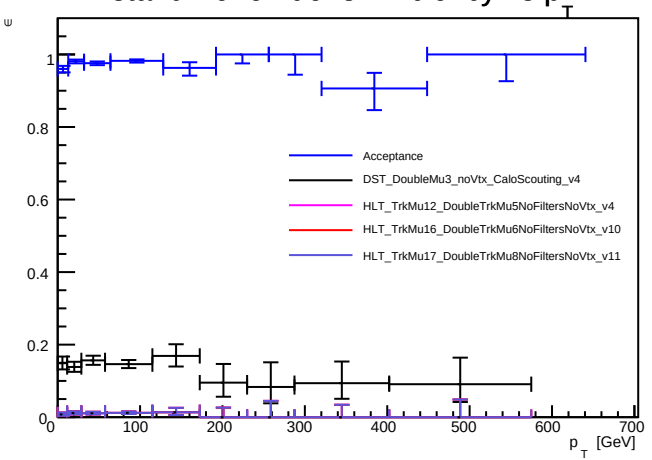
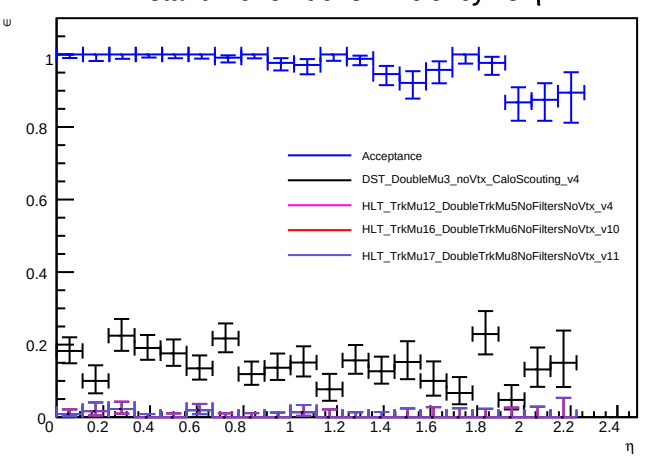
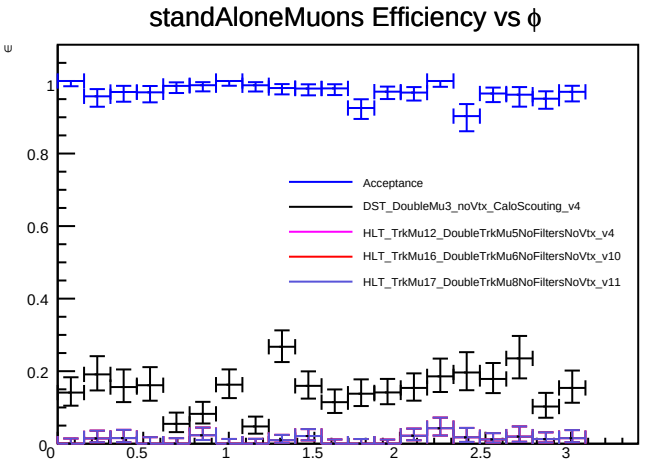
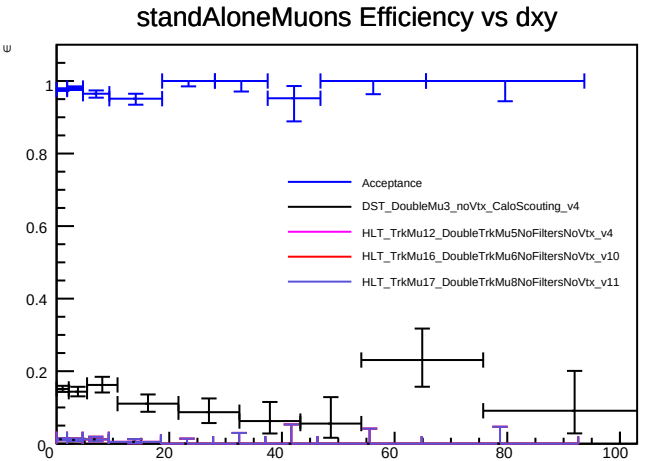
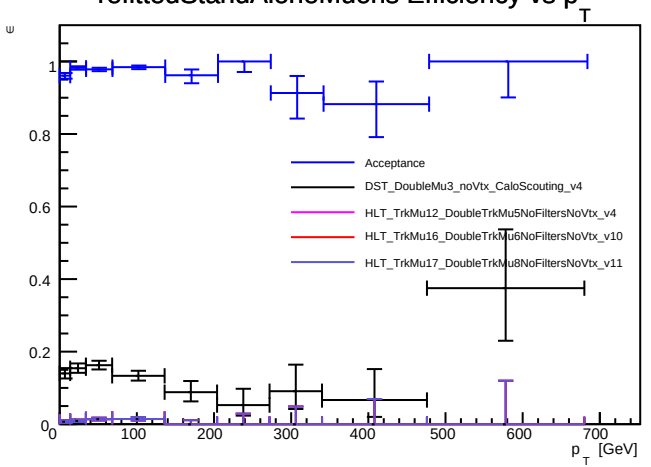
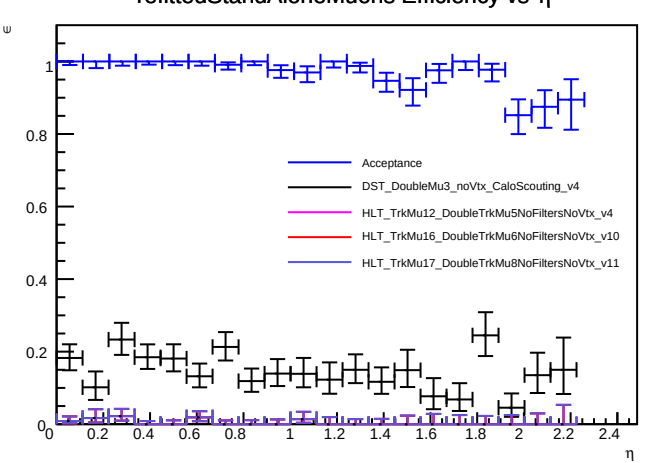

standAloneMuons Efficiency vs p
ε
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
600
700
p_T [GeV]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

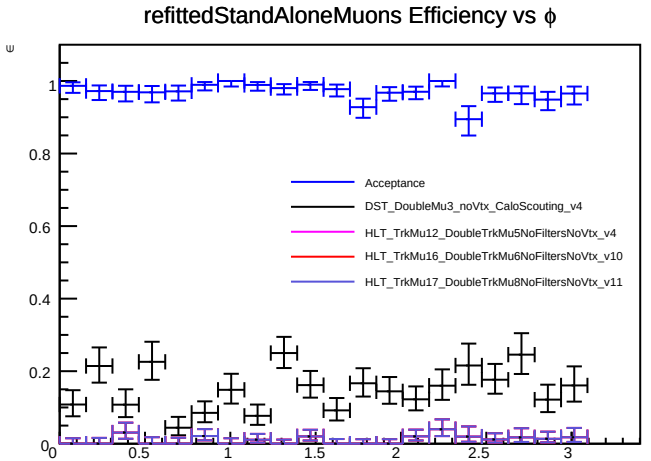

standAloneMuons Efficiency vs η
ε
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
η
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

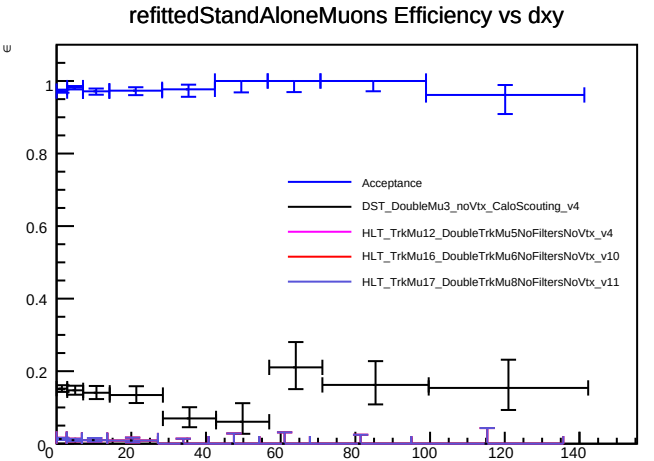

standAloneMuons Efficiency vs ϕ
ε
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
ϕ
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

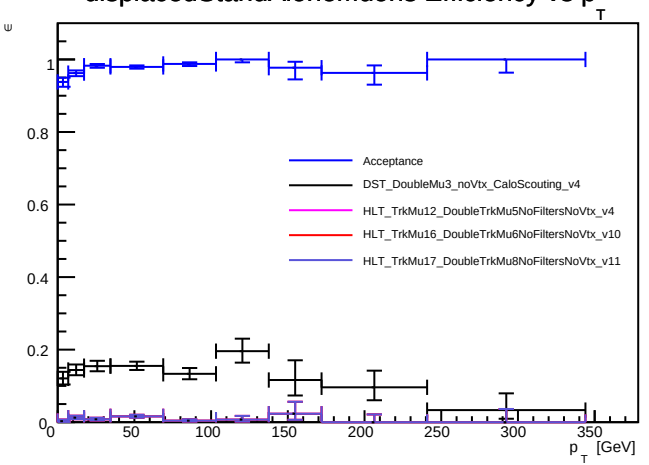

standAloneMuons Efficiency vs dxy
ε
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
dxy [cm]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

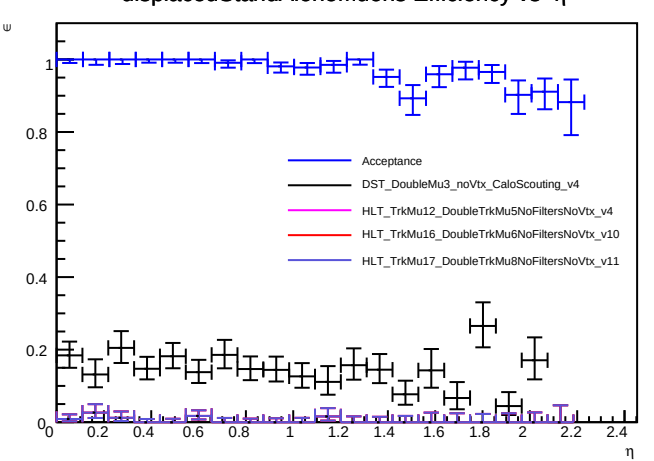

refittedStandAloneMuons Efficiency vs p_T
ε
p_T [GeV]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

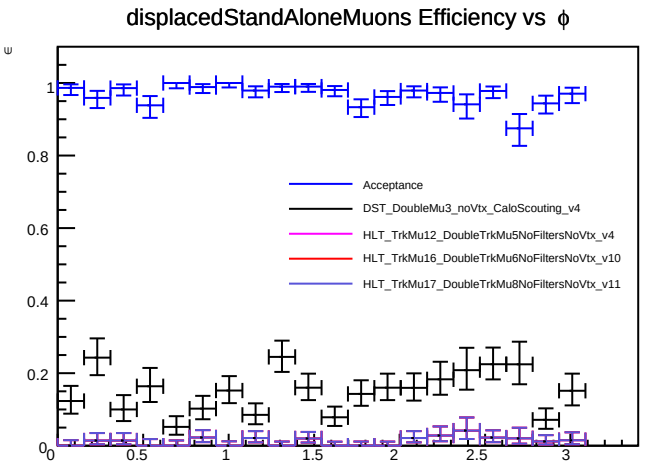

refittedStandAloneMuons Efficiency vs η
ε
η
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

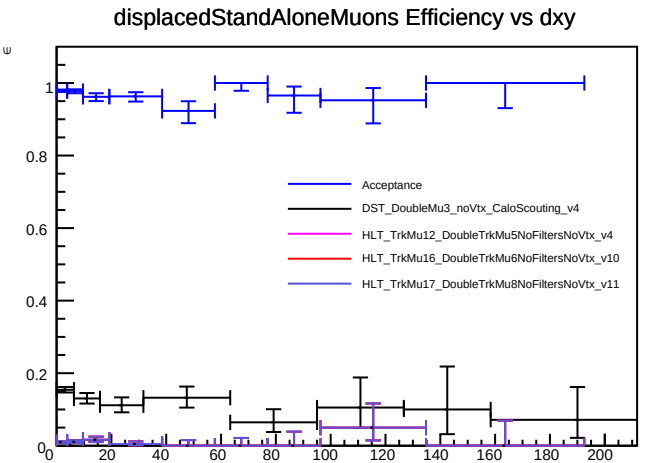

refittedStandAloneMuons Efficiency vs ϕ
ε
ϕ
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

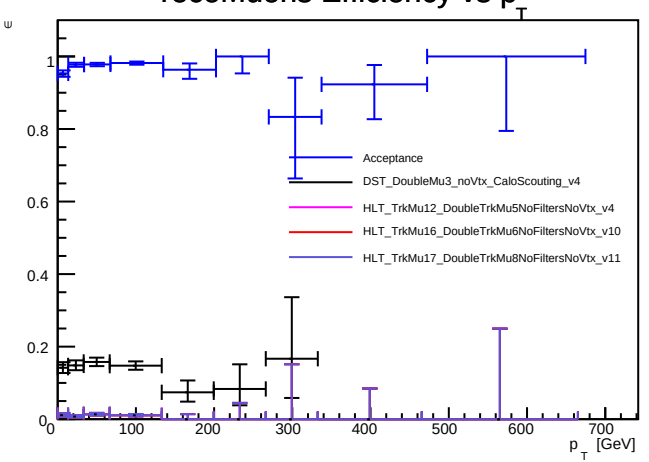

refittedStandAloneMuons Efficiency vs dxy
ε
dxy [cm]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

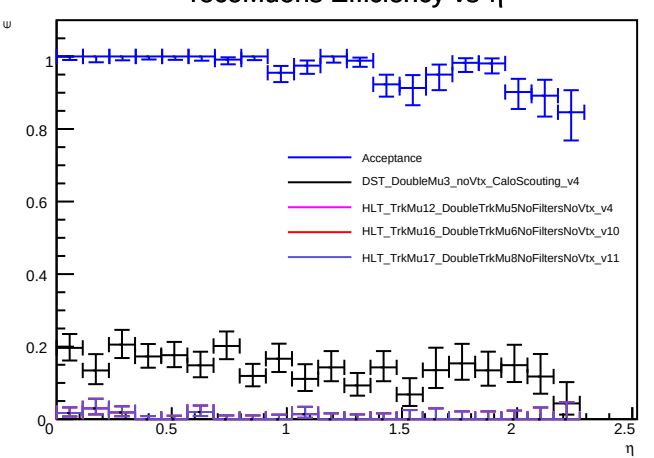

displacedStandAloneMuons Efficiency vs p T
ε
1
0.8
0.6
0.4
0.2
0
0
50
100
150
200
250
300
350
p T [GeV]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

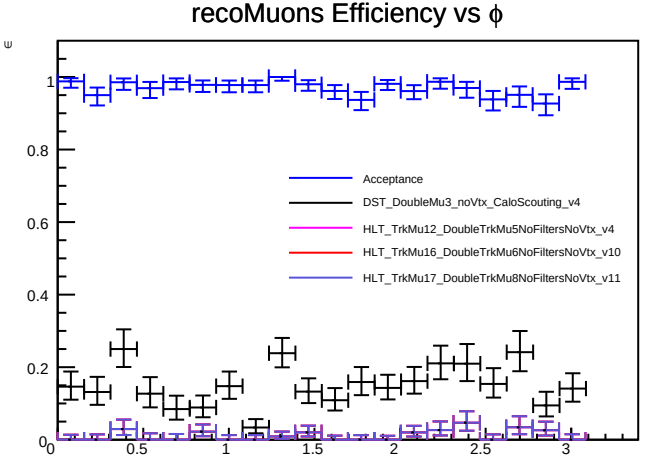

displacedStandAloneMuons Efficiency vs η
ε
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
η
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11

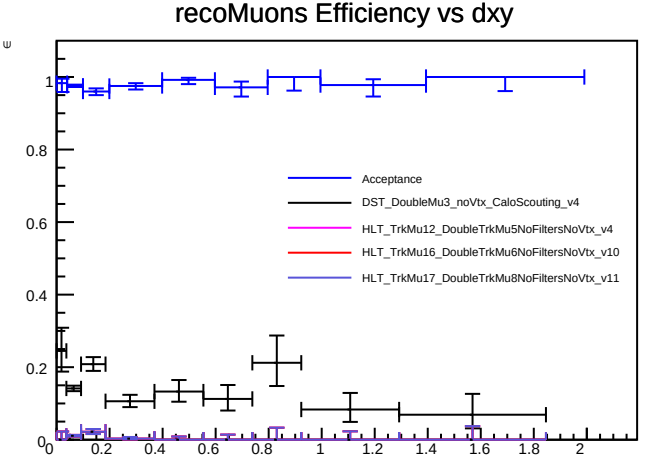

displacedStandAloneMuons Efficiency vs ϕ
ε
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
ϕ
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11


displacedStandAloneMuons Efficiency vs dxy
ε
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
140
160
180
200
dxy [cm]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11


recoMuons Efficiency vs p_T
ε
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
600
700
p_T [GeV]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11


recoMuons Efficiency vs η
ε
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
η
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11


recoMuons Efficiency vs ϕ
ε
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
ϕ
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11


recoMuons Efficiency vs dxy
ε
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
dxy [cm]
Acceptance
DST_DoubleMu3_noVtx_CaloScouting_v4
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx_v4
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx_v10
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx_v11