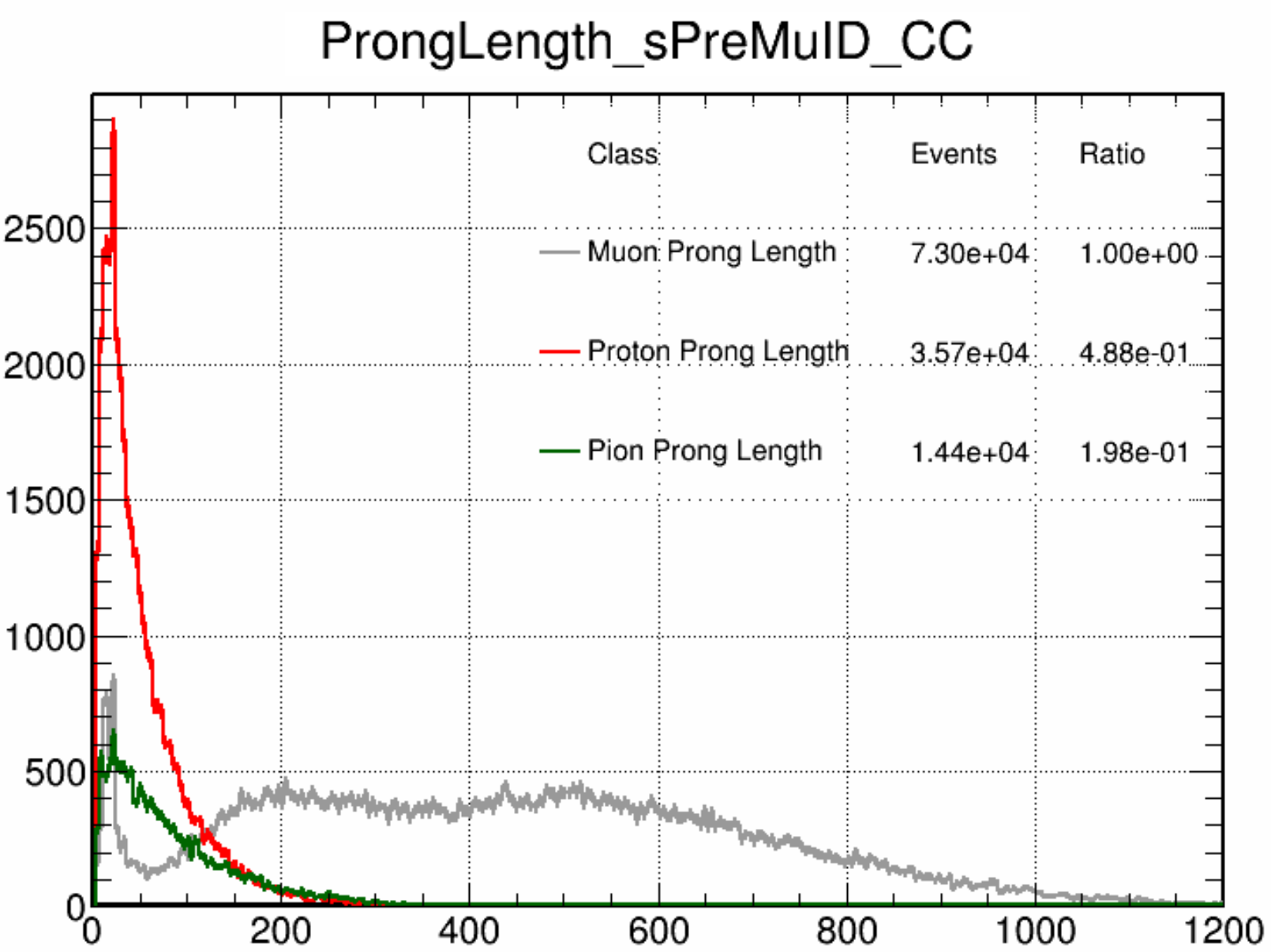
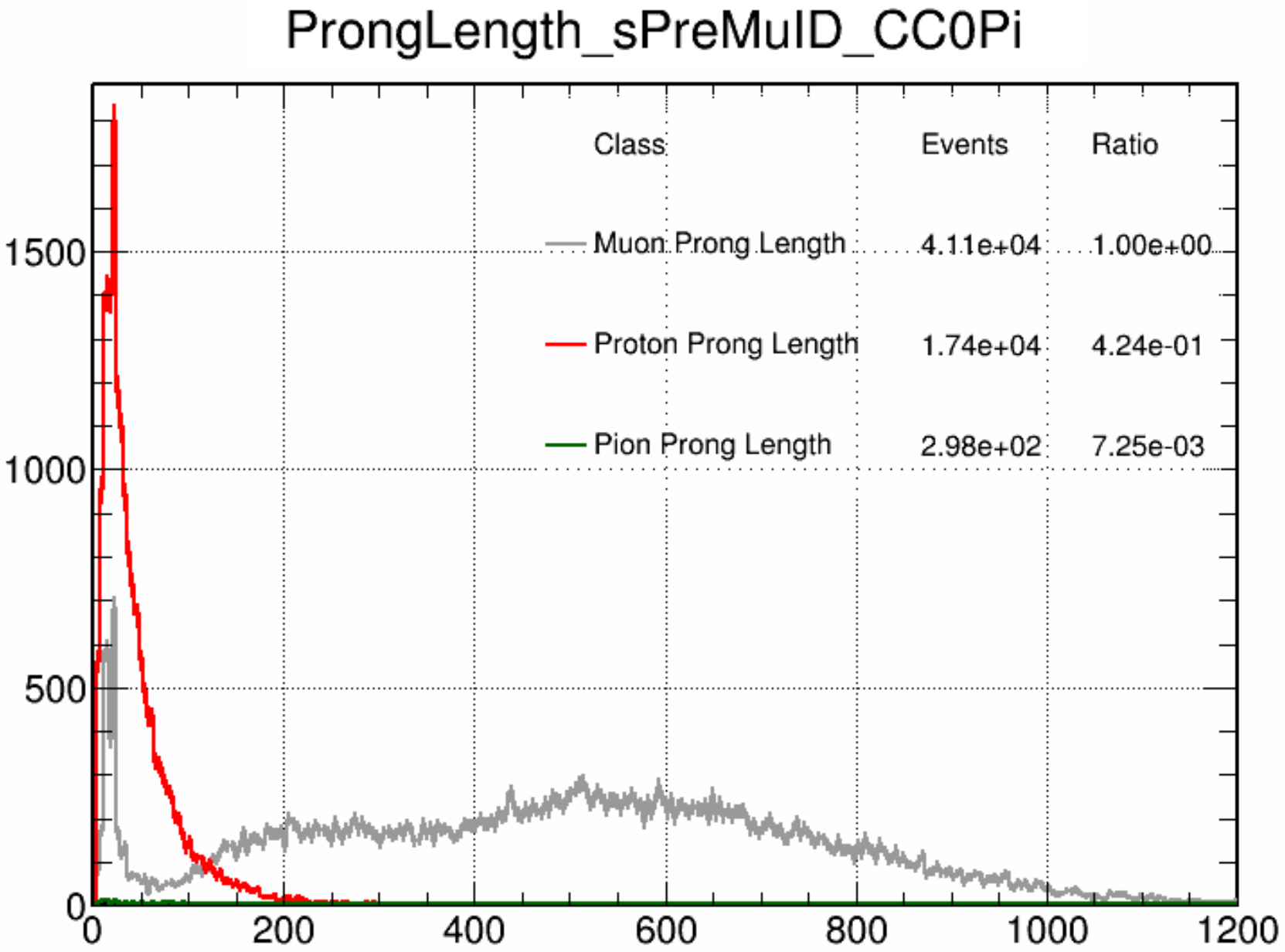
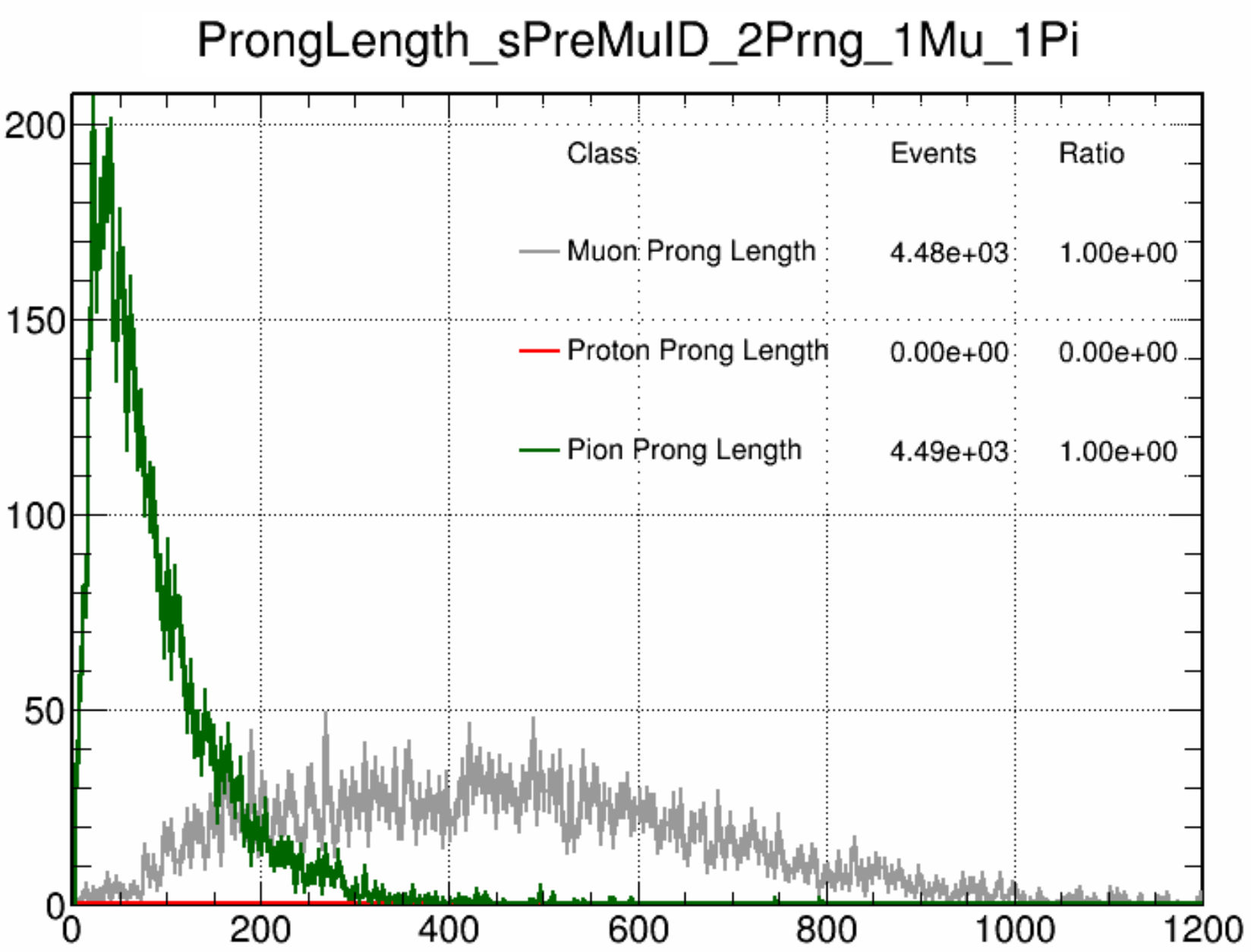
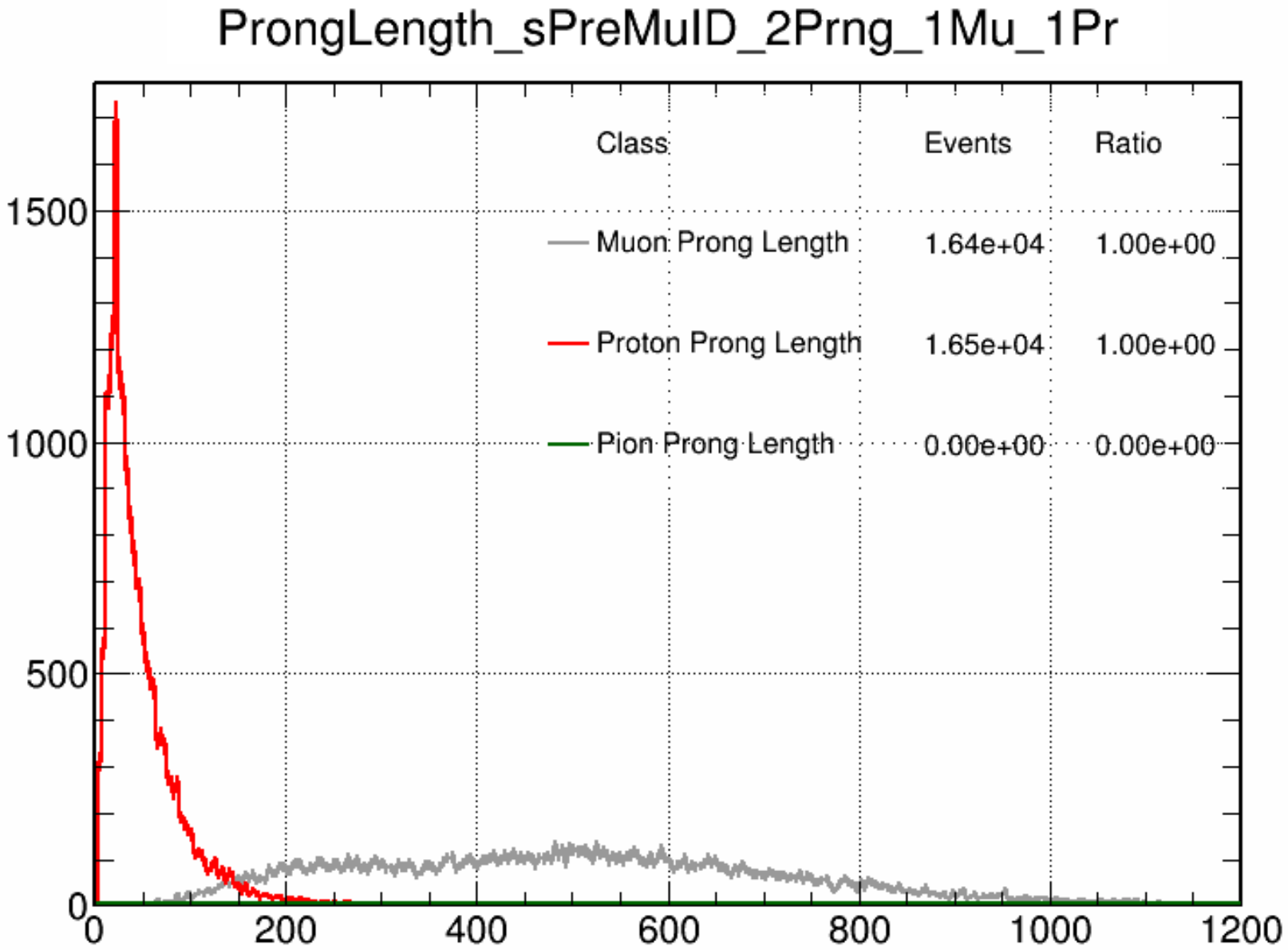
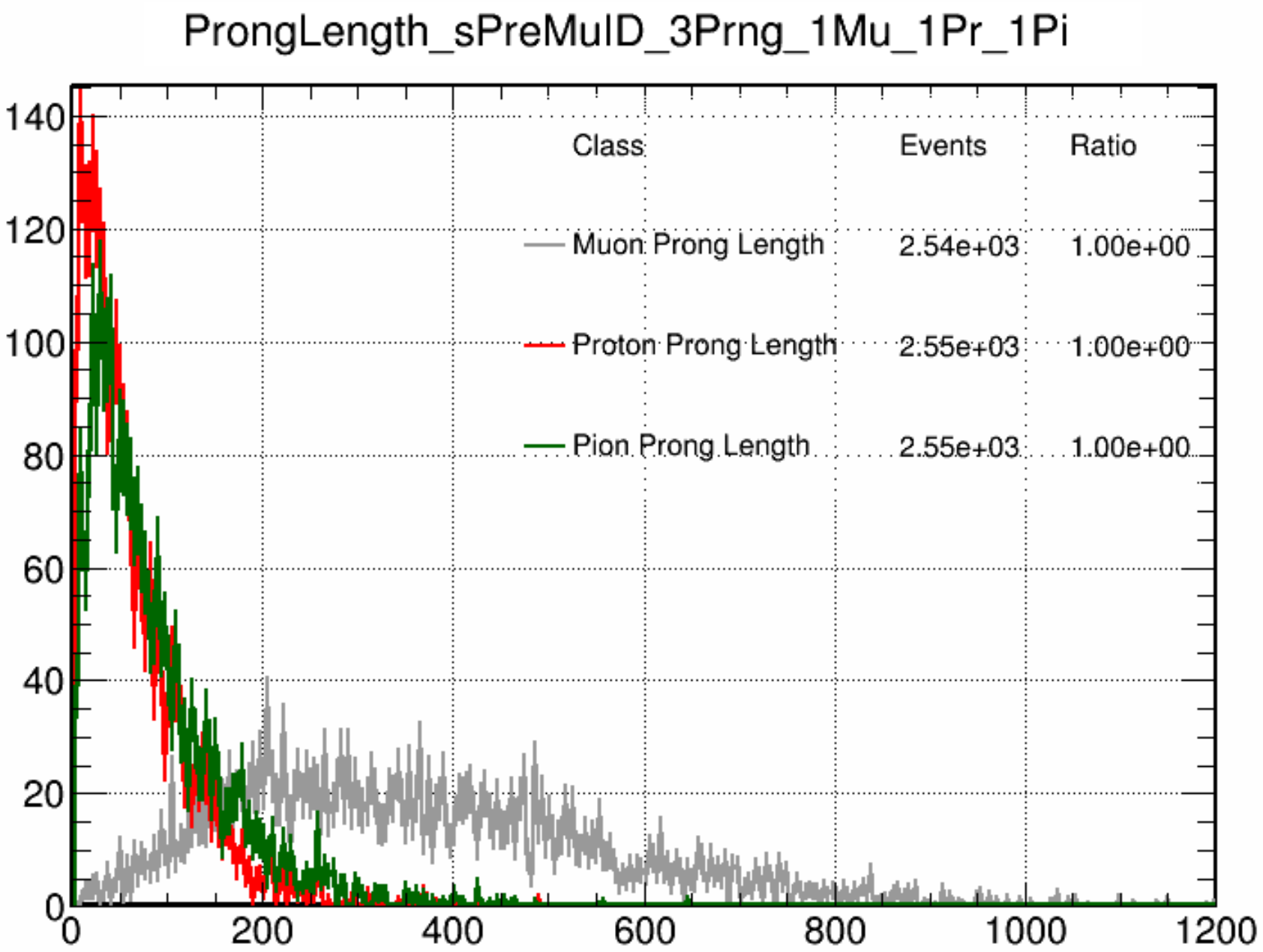
Prong Length Comparison (Mu,Pi,Pr)


ProngLength_sPreMuID_CC
Class
Events
Ratio
Muon Prong Length
7.30e+04
1.00e+00
Proton Prong Length
3.57e+04
4.88e-01
Pion Prong Length
1.44e+04
1.98e-01
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_CC0Pi
Class
Events
Ratio
Muon Prong Length
4.11e+04
1.00e+00
Proton Prong Length
1.74e+04
4.24e-01
Pion Prong Length
2.98e+02
7.25e-03
1500
1000
500
0
0
200
400
600
800
1000
1200

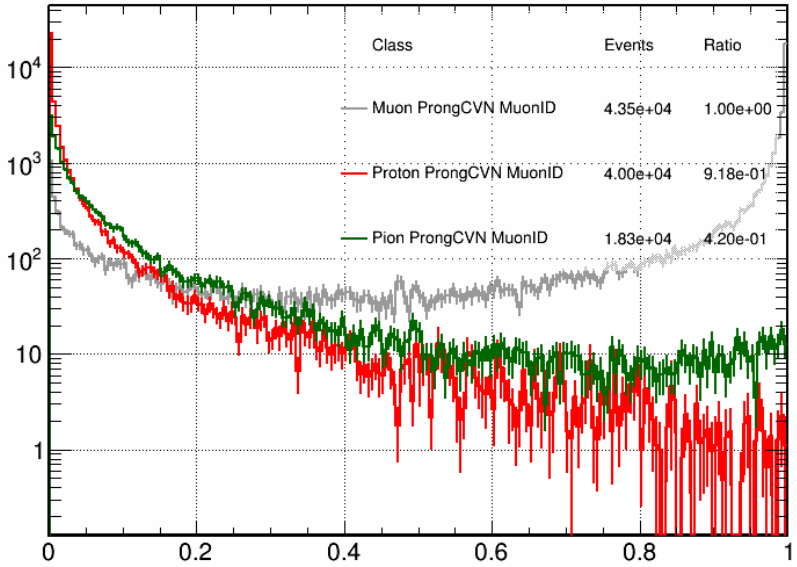

ProngLength_sPreMuID_2Prng_1Mu_1Pi
Class
Events
Ratio
Muon Prong Length
4.48e+03
1.00e+00
Proton Prong Length
0.00e+00
0.00e+00
Pion Prong Length
4.49e+03
1.00e+00
200
150
100
50
0
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_2Prng_1Mu_1Pr
Class
Events
Ratio
Muon Prong Length
1.64e+04
1.00e+00
Proton Prong Length
1.65e+04
1.00e+00
Pion Prong Length
0.00e+00
0.00e+00
1500
1000
500
0
0
200
400
600
800
1000
1200

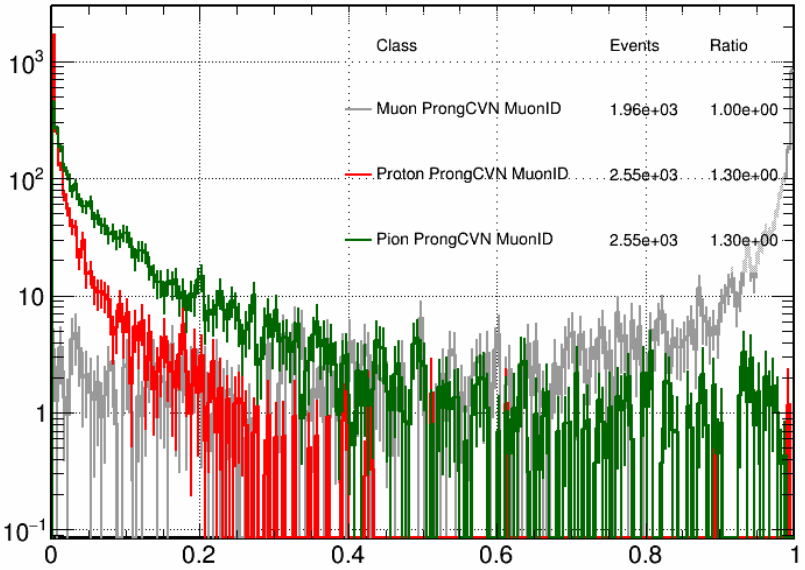

ProngLength_sPreMuID_3Prng_1Mu_1Pr_1Pi
Class
Events
Ratio
Muon Prong Length
2.54e+03
1.00e+00
Proton Prong Length
2.55e+03
1.00e+00
Pion Prong Length
2.55e+03
1.00e+00
140
120
100
80
60
40
20
0
0
200
400
600
800
1000
1200

Muon CVN Score (Different Selections)

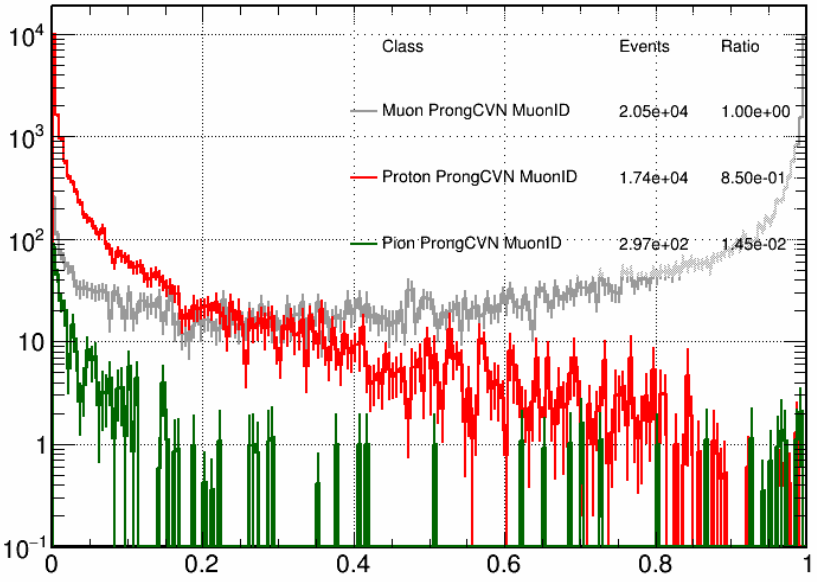
MuonID_sPreMuID



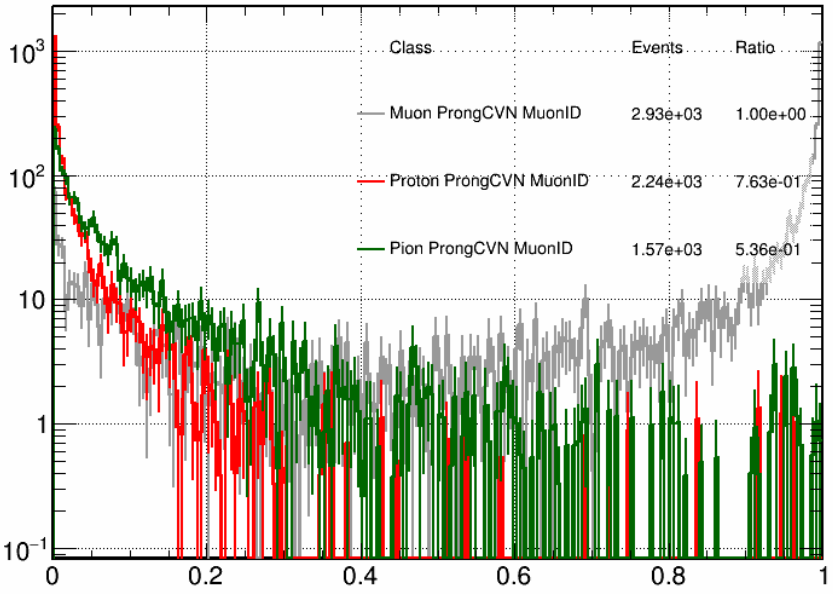
MuonID_sPreMuID_3Prng_1Mu_1Pr_1Pi

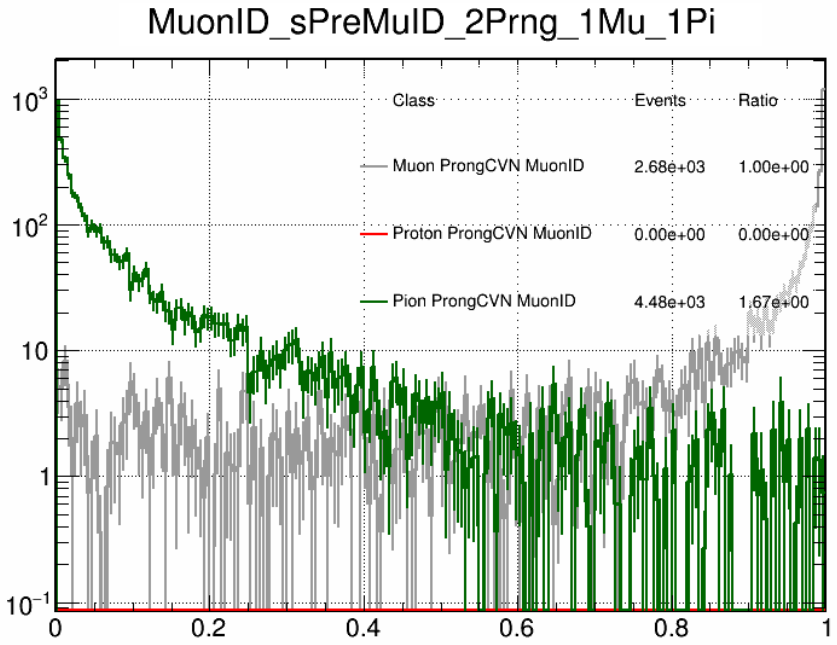


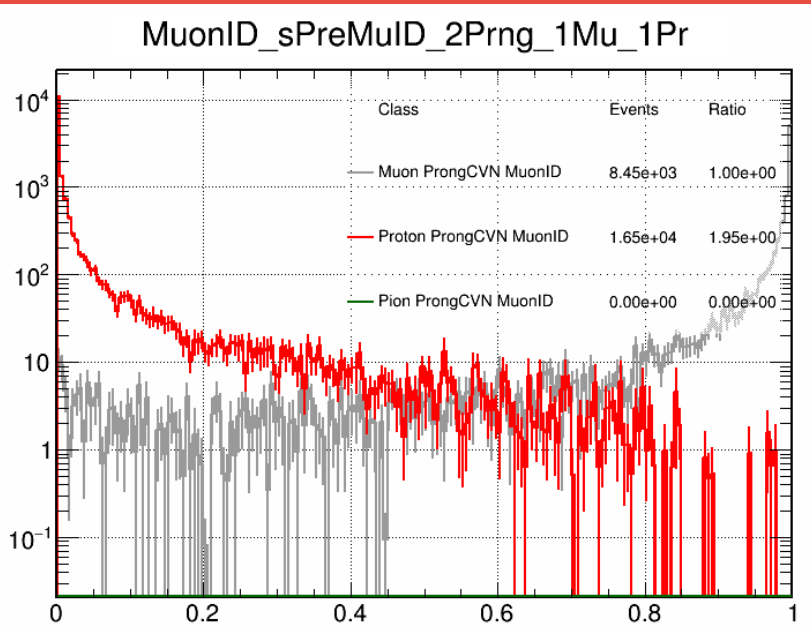
MuonID_sPreMuID_CC0Pi

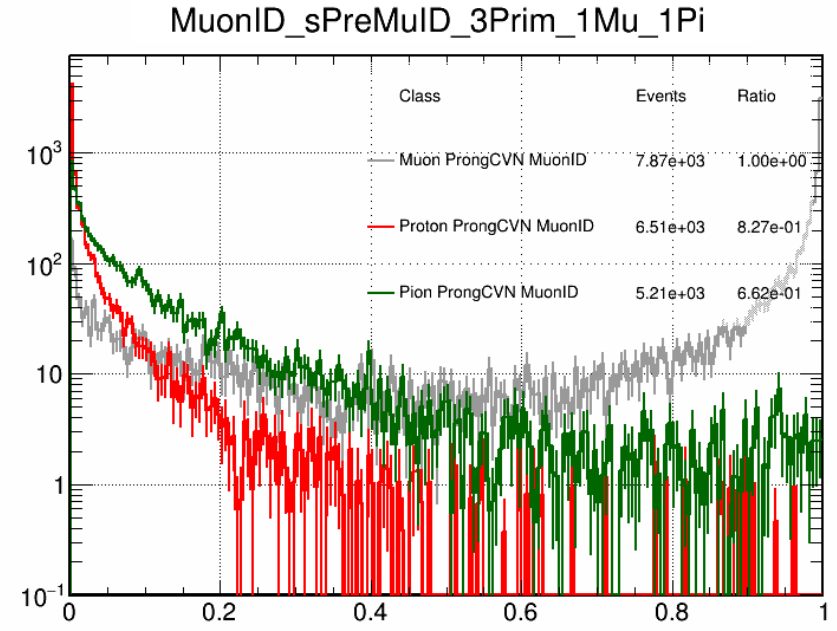


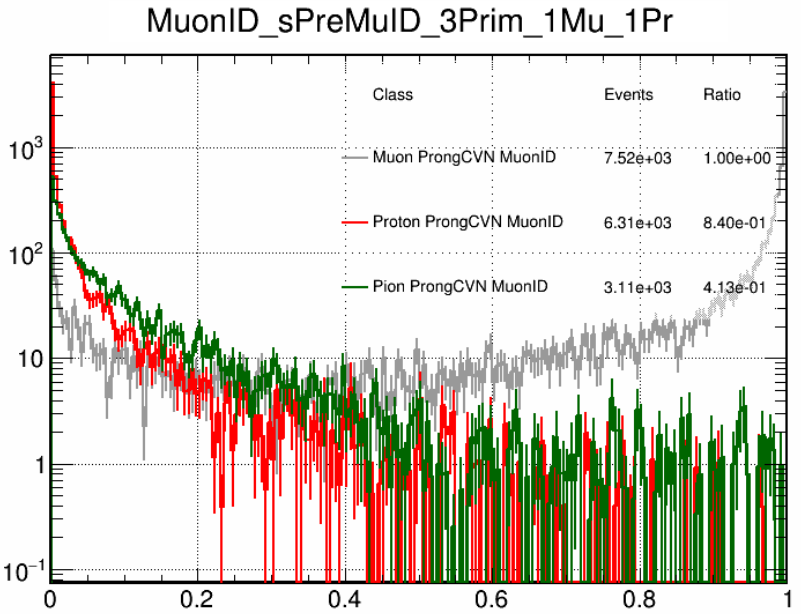
MuonID_sPreMuID_4Prim_1Mu_1Pr_1Pi



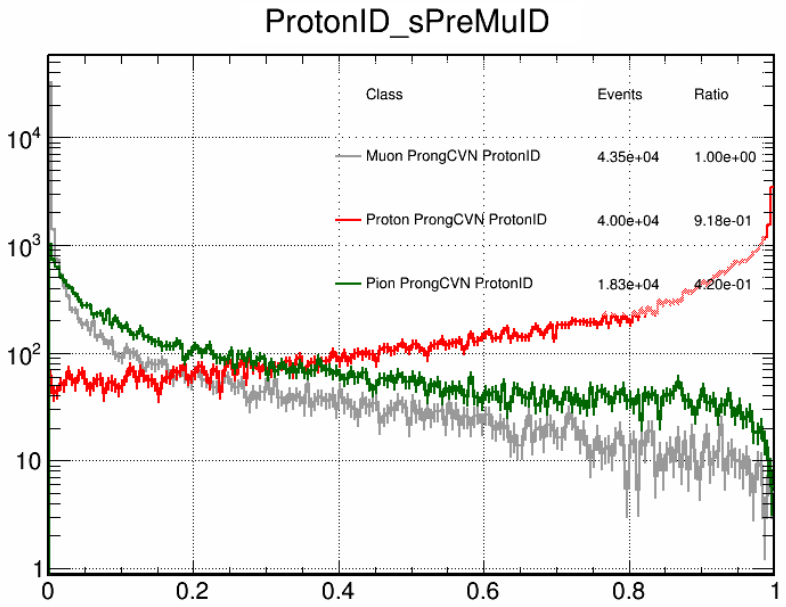

MuonID_sPreMuID_2Prng_1Mu_1Pi
Class Events Ratio
Muon ProngCVN MuonID 2.68e+03 1.00e+00
Proton ProngCVN MuonID 0.00e+00 0.00e+00
Pion ProngCVN MuonID 4.48e+03 1.67e+00

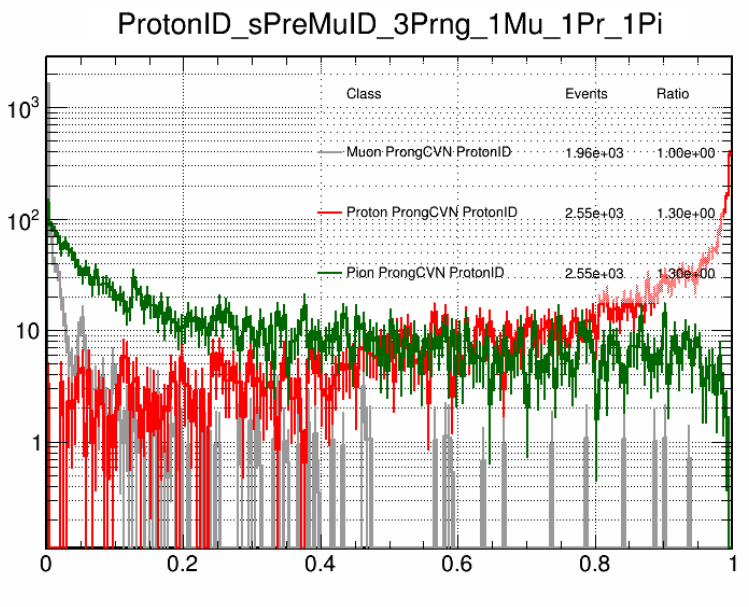

MuonID_sPreMuID_2Prng_1Mu_1Pr
Class Events Ratio
Muon ProngCVN MuonID 8.45e+03 1.00e+00
Proton ProngCVN MuonID 1.65e+04 1.95e+00
Pion ProngCVN MuonID 0.00e+00 0.00e+00

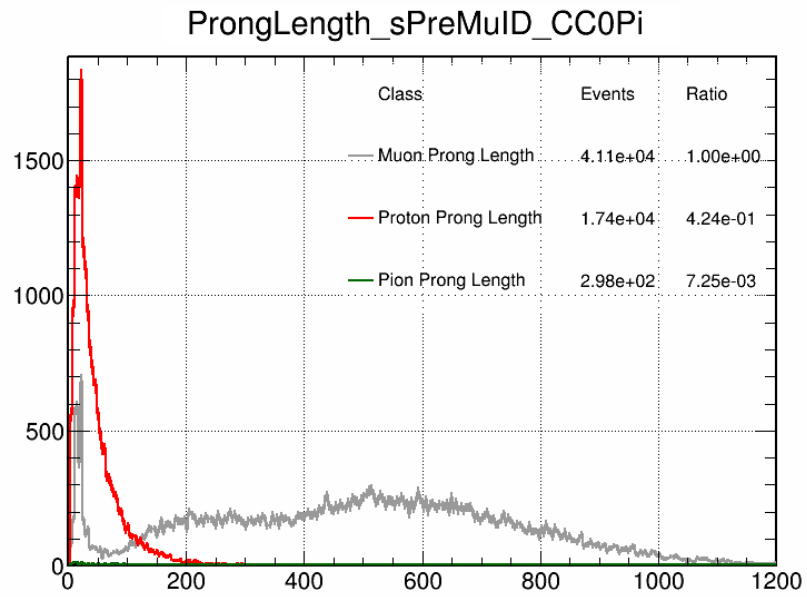

MuonID_sPreMuID_3Prim_1Mu_1Pi
Class Events Ratio
Muon ProngCVN MuonID 7.87e+03 1.00e+00
Proton ProngCVN MuonID 6.51e+03 8.27e-01
Pion ProngCVN MuonID 5.21e+03 6.62e-01

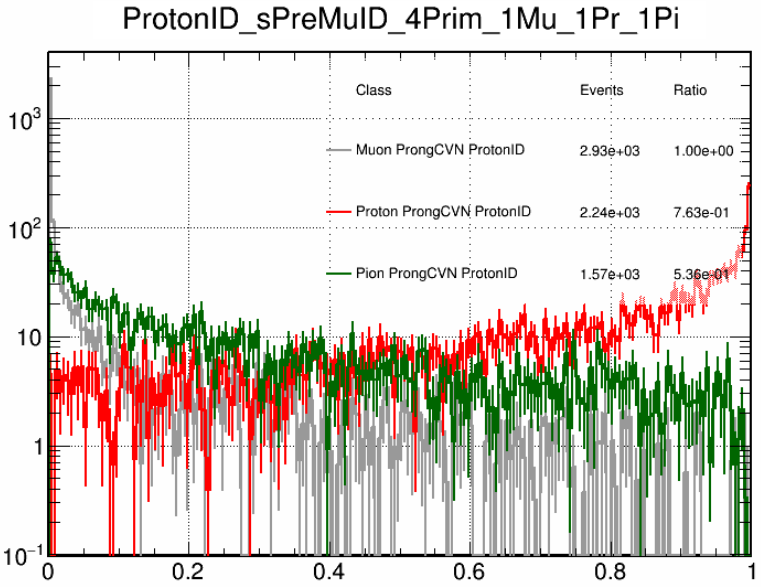

MuonID_sPreMuID_3Prim_1Mu_1Pr
Class Events Ratio
Muon ProngCVN MuonID 7.52e+03 1.00e+00
Proton ProngCVN MuonID 6.31e+03 8.40e-01
Pion ProngCVN MuonID 3.11e+03 4.13e-01

Proton CVN Score (Different Selections)

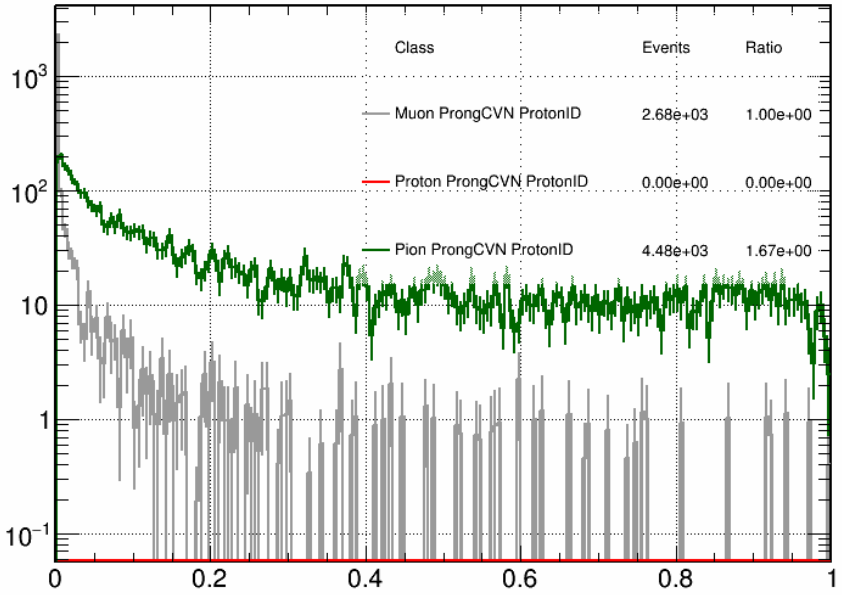

ProtonID_sPreMuID
Class
Events
Ratio
Muon ProngCVN ProtonID
4.35e+04
1.00e+00
Proton ProngCVN ProtonID
4.00e+04
9.18e-01
Pion ProngCVN ProtonID
1.83e+04
4.20e-01


ProtonID_sPreMuID_3Prng_1Mu_1Pr_1Pi
Class
Events
Ratio
Muon ProngCVN ProtonID
1.96e+03
1.00e+00
Proton ProngCVN ProtonID
2.55e+03
1.30e+00
Pion ProngCVN ProtonID
2.55e+03
1.30e+00

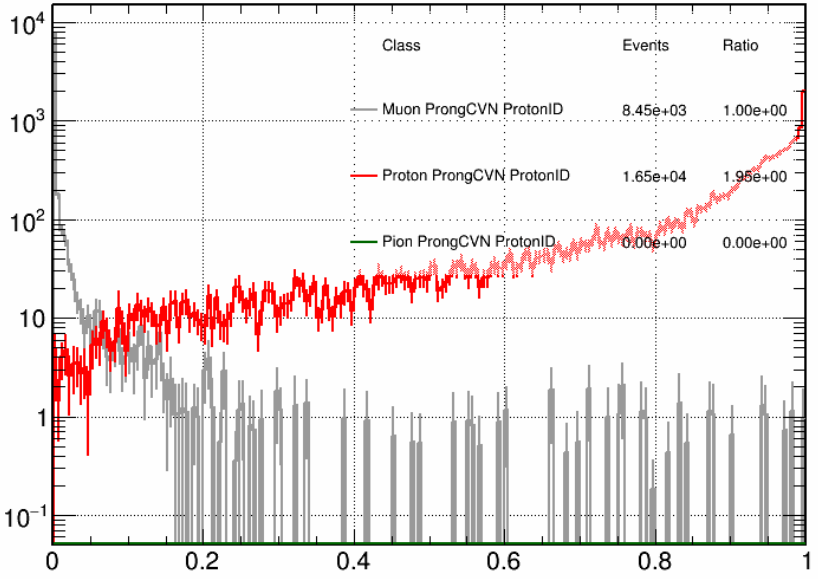

ProngLength_sPreMuID_CC0Pi
Class
Events
Ratio
Muon Prong Length
4.11e+04
1.00e+00
Proton Prong Length
1.74e+04
4.24e-01
Pion Prong Length
2.98e+02
7.25e-03


ProtonID_sPreMuID_4Prim_1Mu_1Pr_1Pi
Class
Events
Ratio
Muon ProngCVN ProtonID
2.93e+03
1.00e+00
Proton ProngCVN ProtonID
2.24e+03
7.63e-01
Pion ProngCVN ProtonID
1.57e+03
5.36e-01

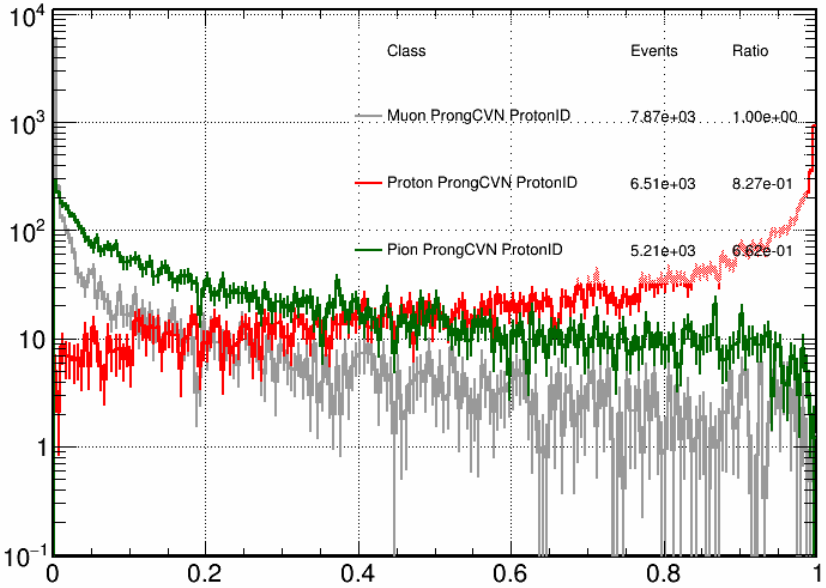
ProtonID_sPreMuID_2Prng_1Mu_1Pi



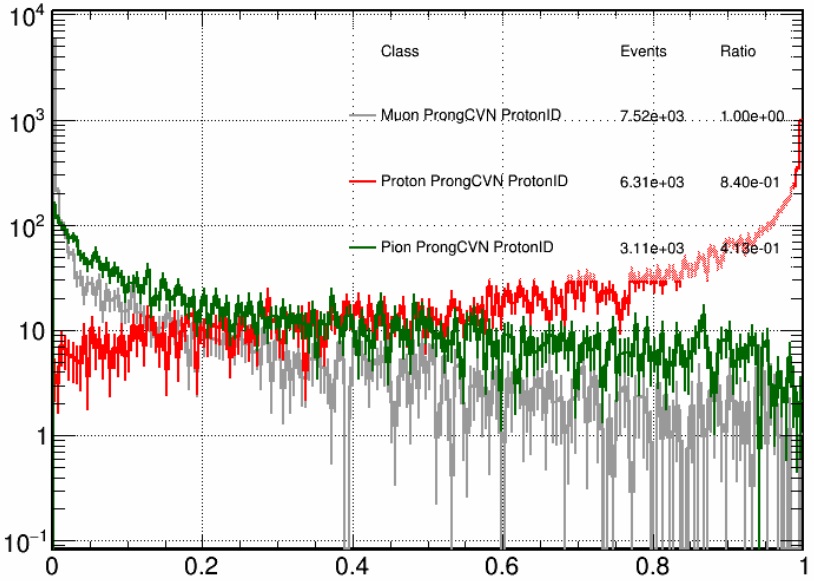
ProtonID_sPreMuID_2Prng_1Mu_1Pr



ProtonID_sPreMuID_3Prim_1Mu_1Pi

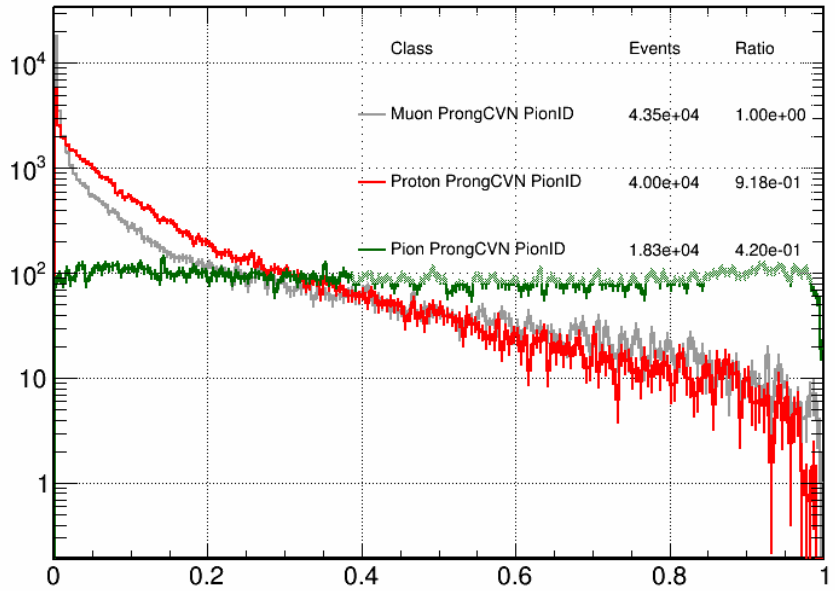


ProtonID_sPreMuID_3Prim_1Mu_1Pr

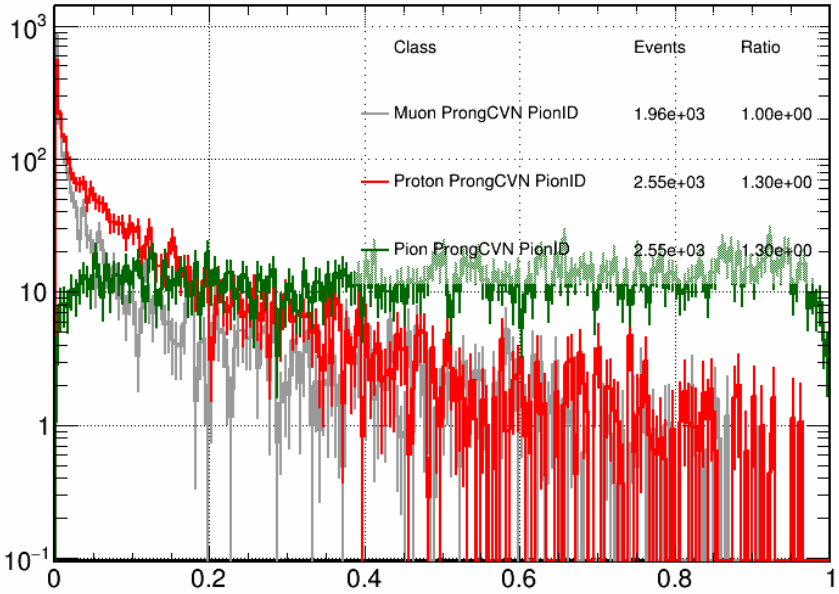


Pion CVN Score (Different Selections)

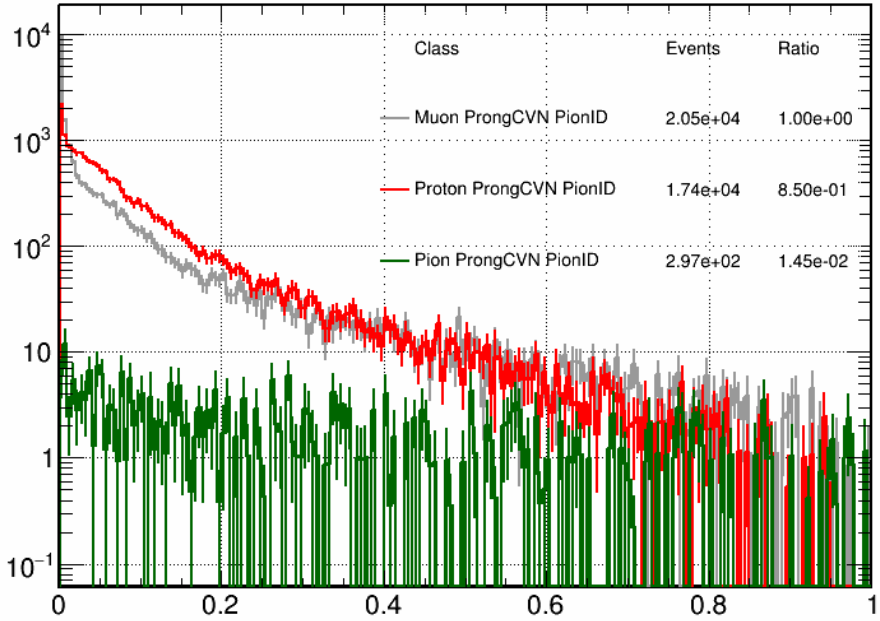
PionID_sPreMuID



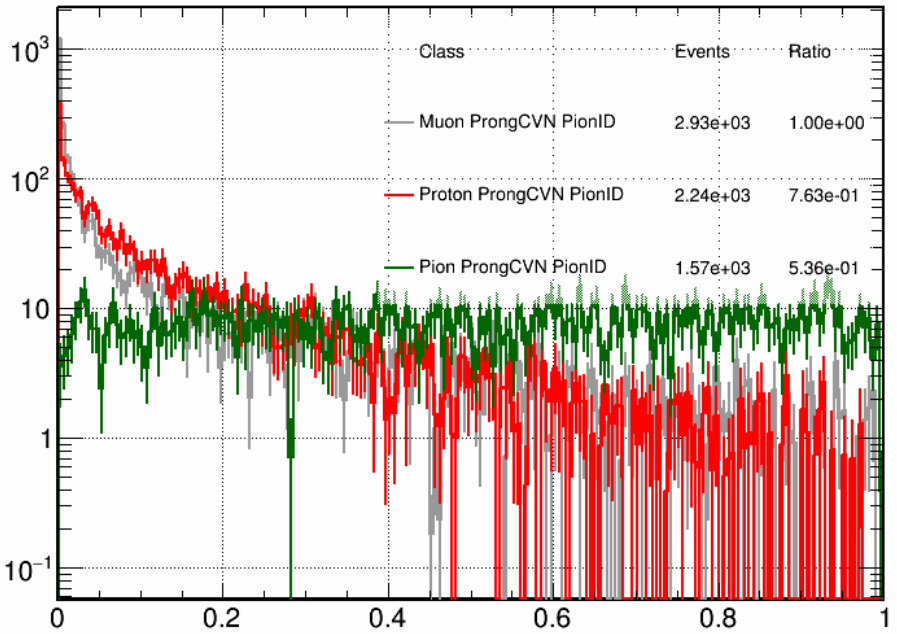
PionID_sPreMuID_3Prng_1Mu_1Pr_1Pi



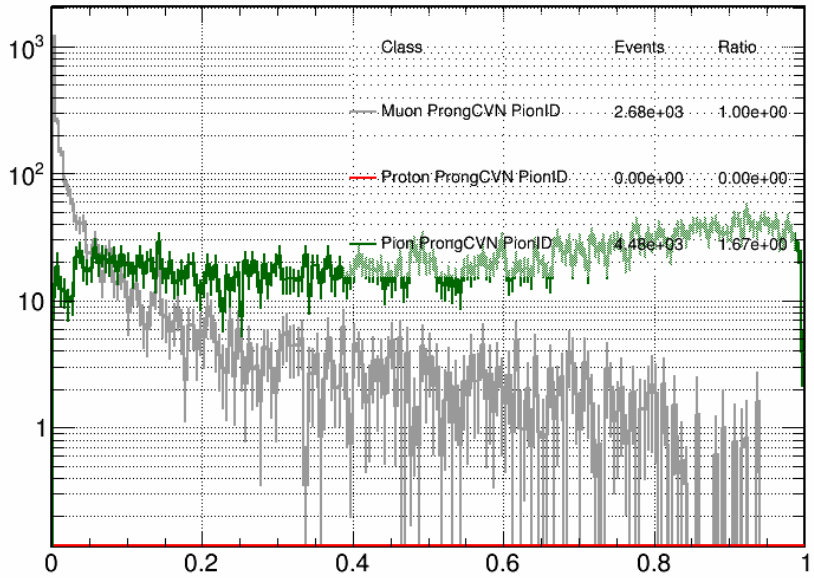
PionID_sPreMuID_CC0Pi



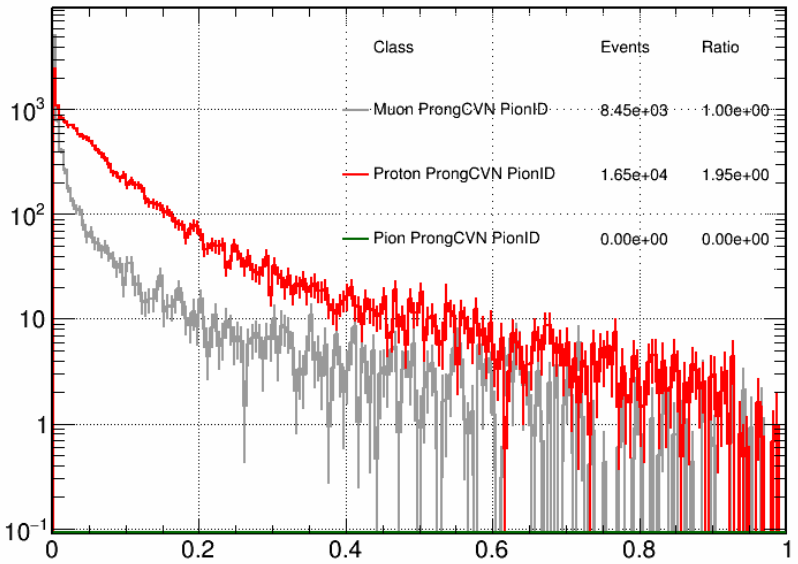
PionID_sPreMuID_4Prim_1Mu_1Pr_1Pi



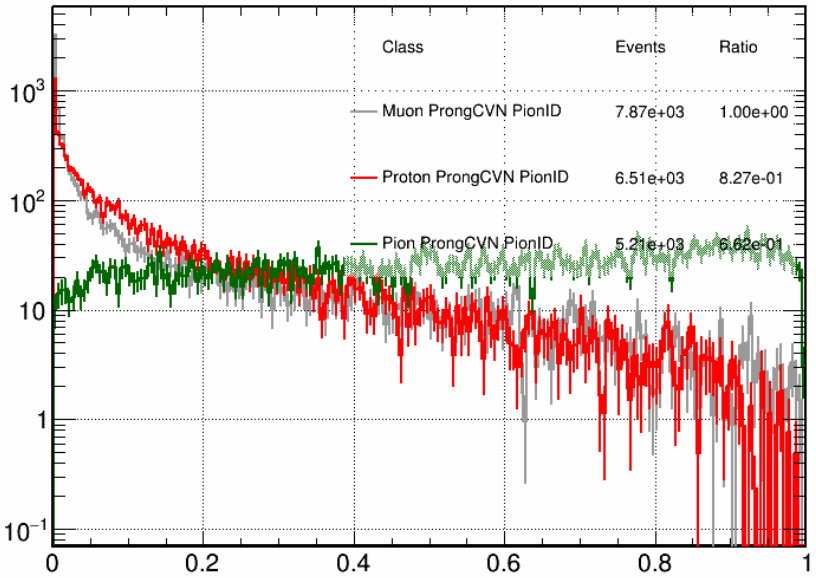
PionID_sPreMuID_2Prng_1Mu_1Pi



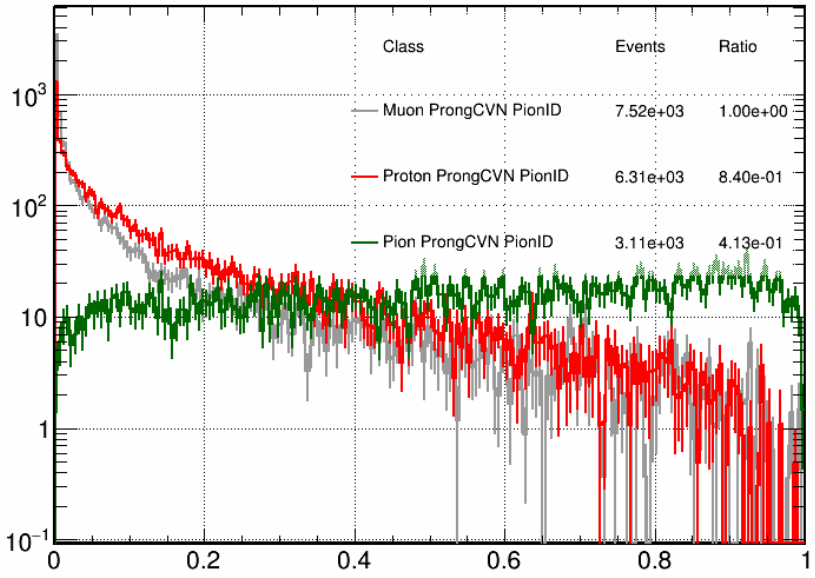
PionID_sPreMuID_2Prng_1Mu_1Pr



PionID_sPreMuID_3Prim_1Mu_1Pi



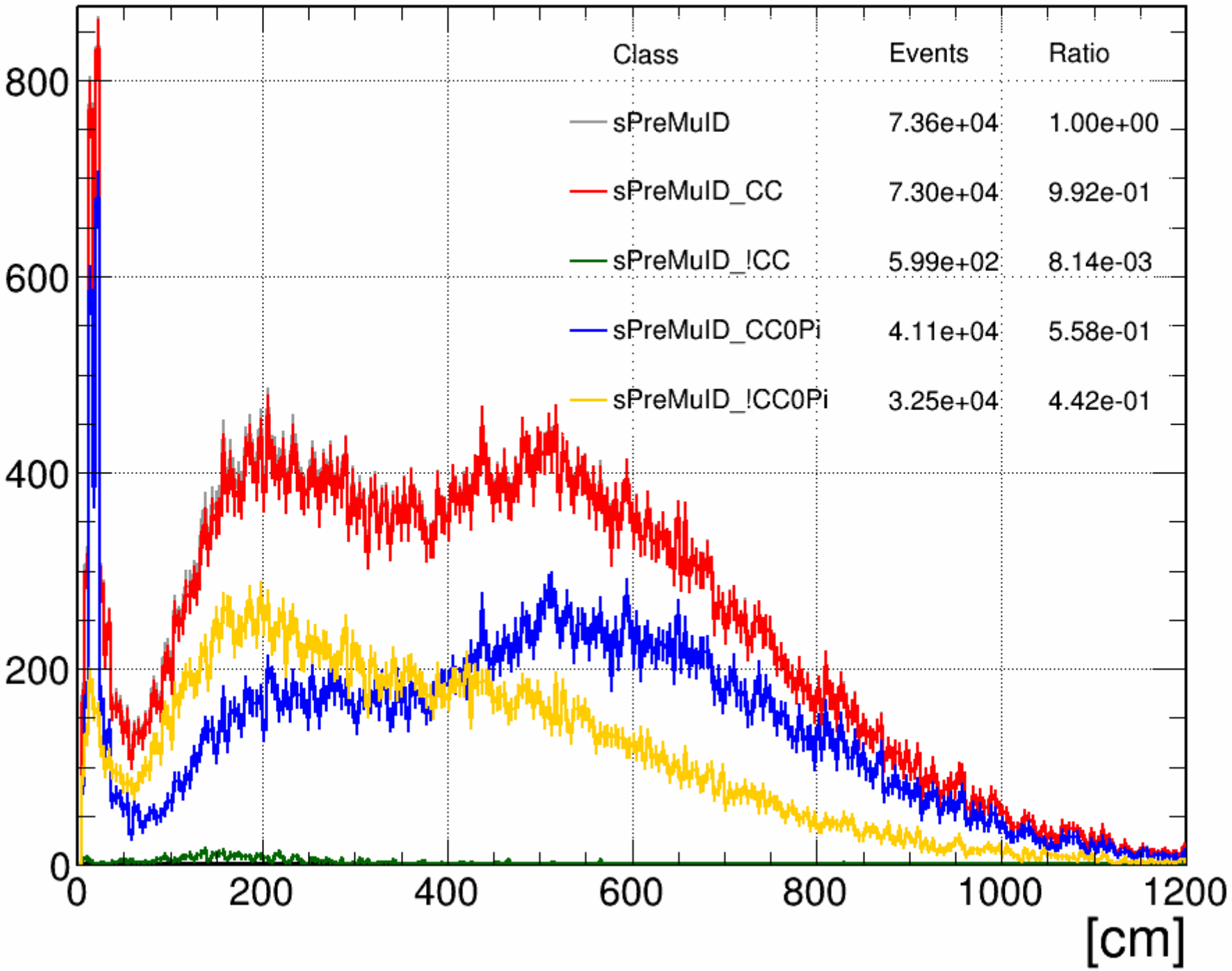
PionID_sPreMuID_3Prim_1Mu_1Pr



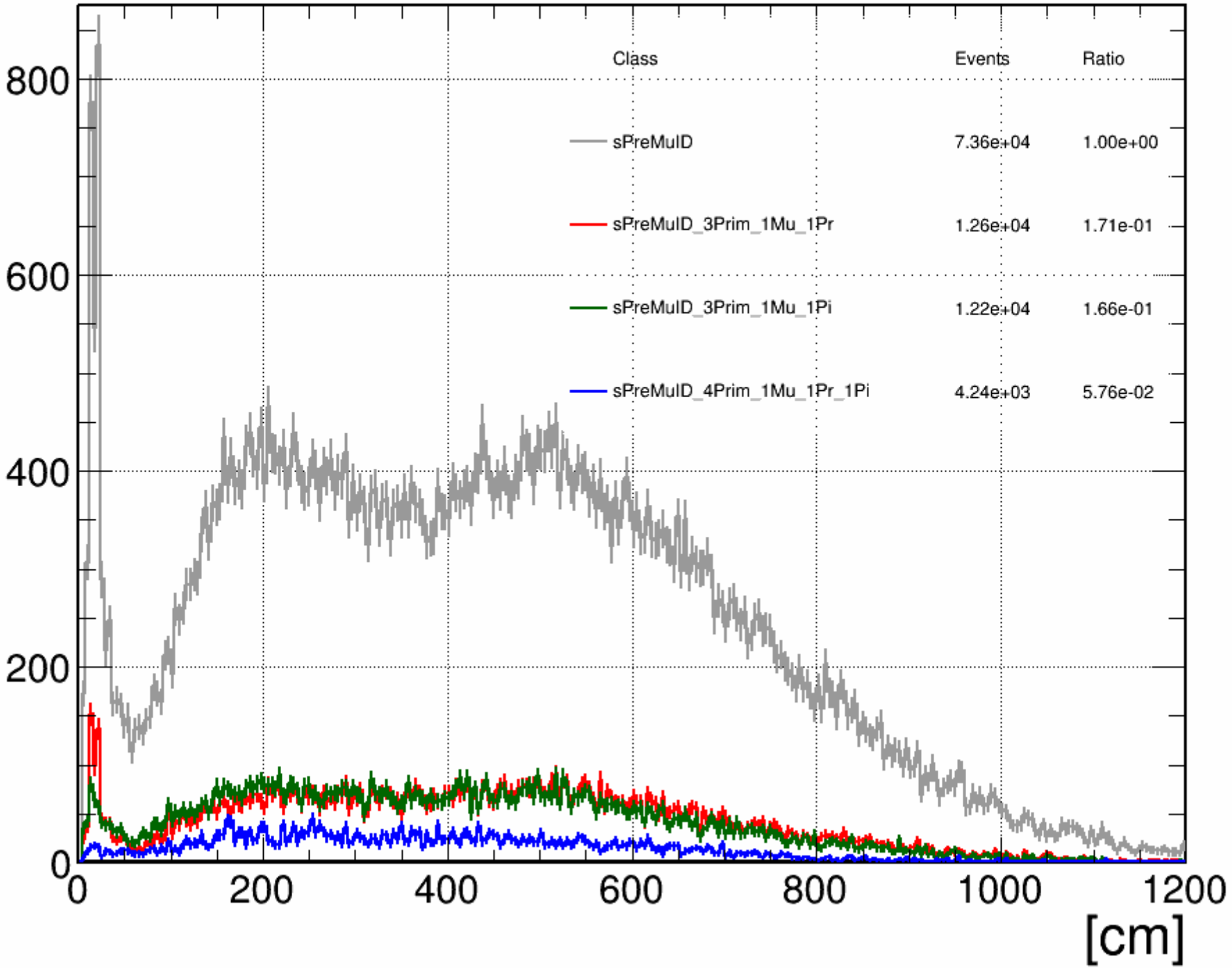
EXTRA

Muon Prong Length (Different Selections)

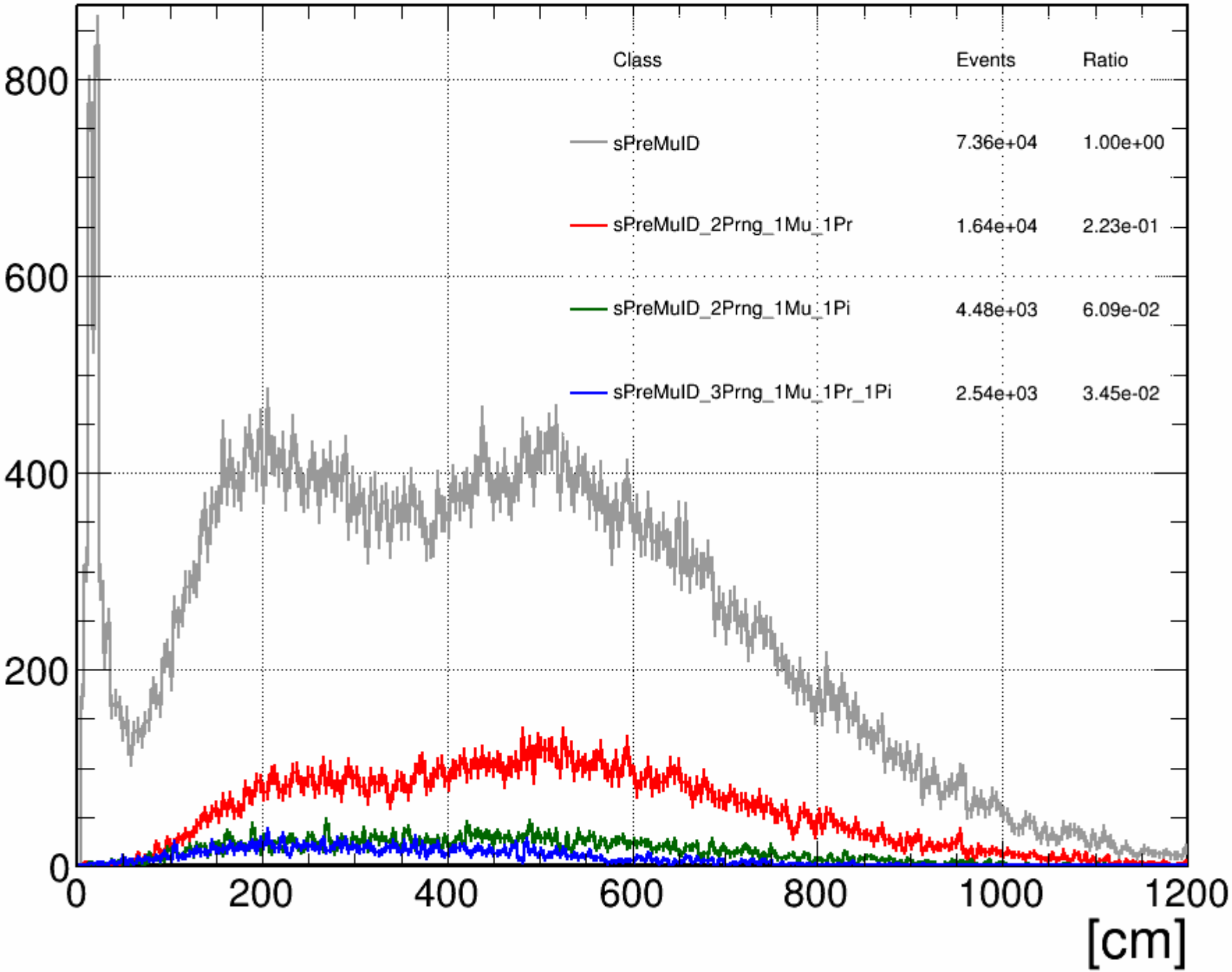
Muon Prong Length



Muon Prong Length

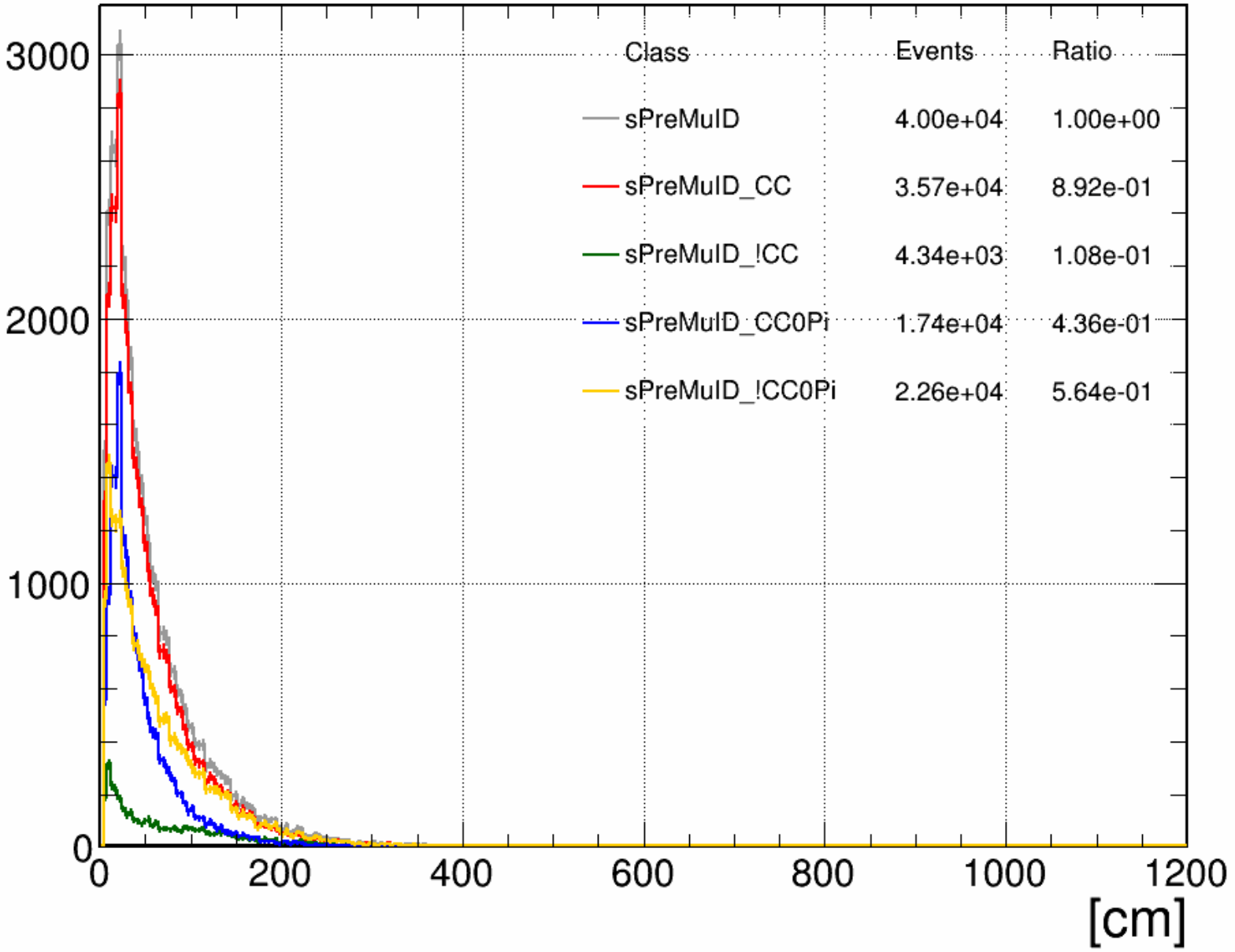


Muon Prong Length

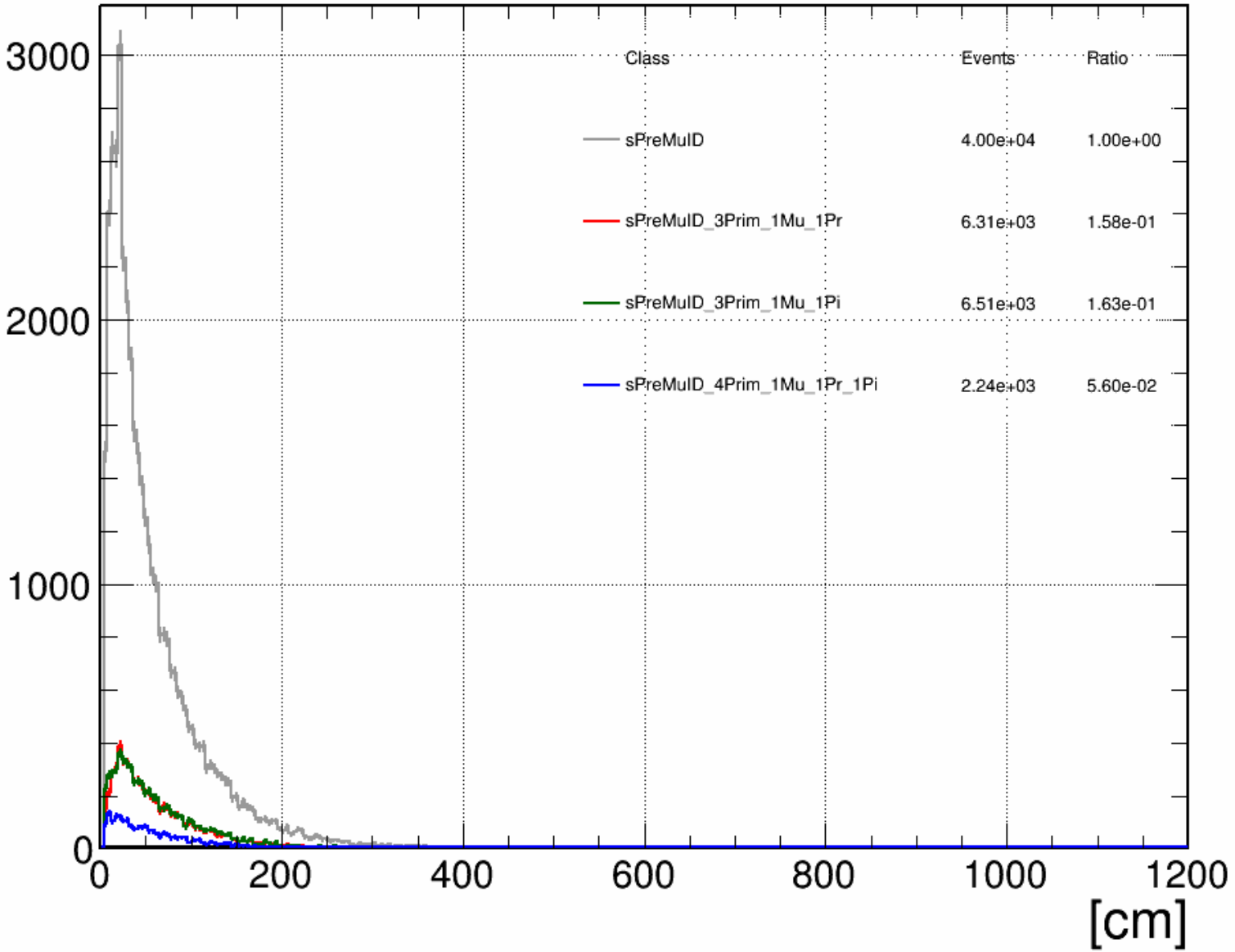


Proton Prong Length (Different Selections)

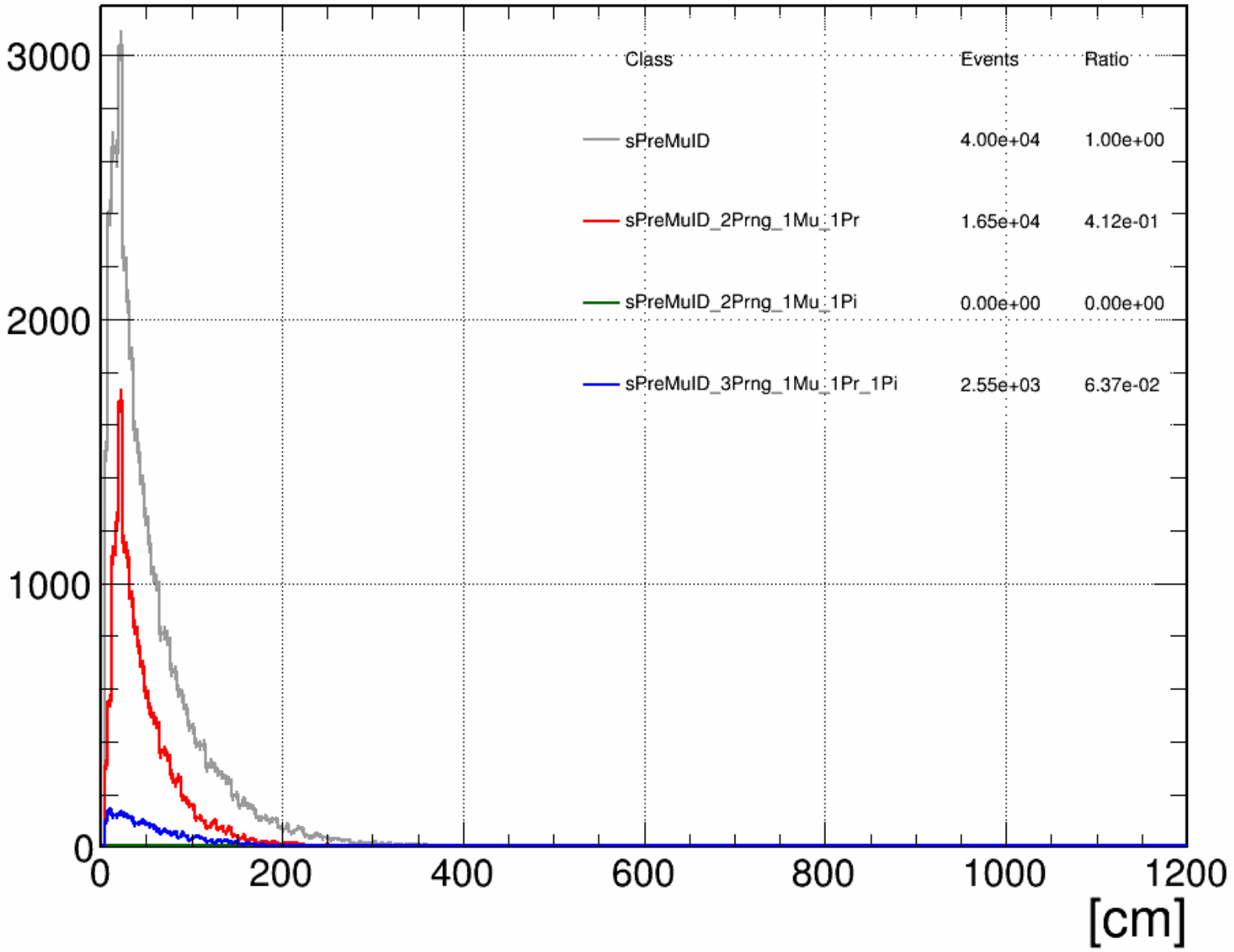
Proton Prong Length



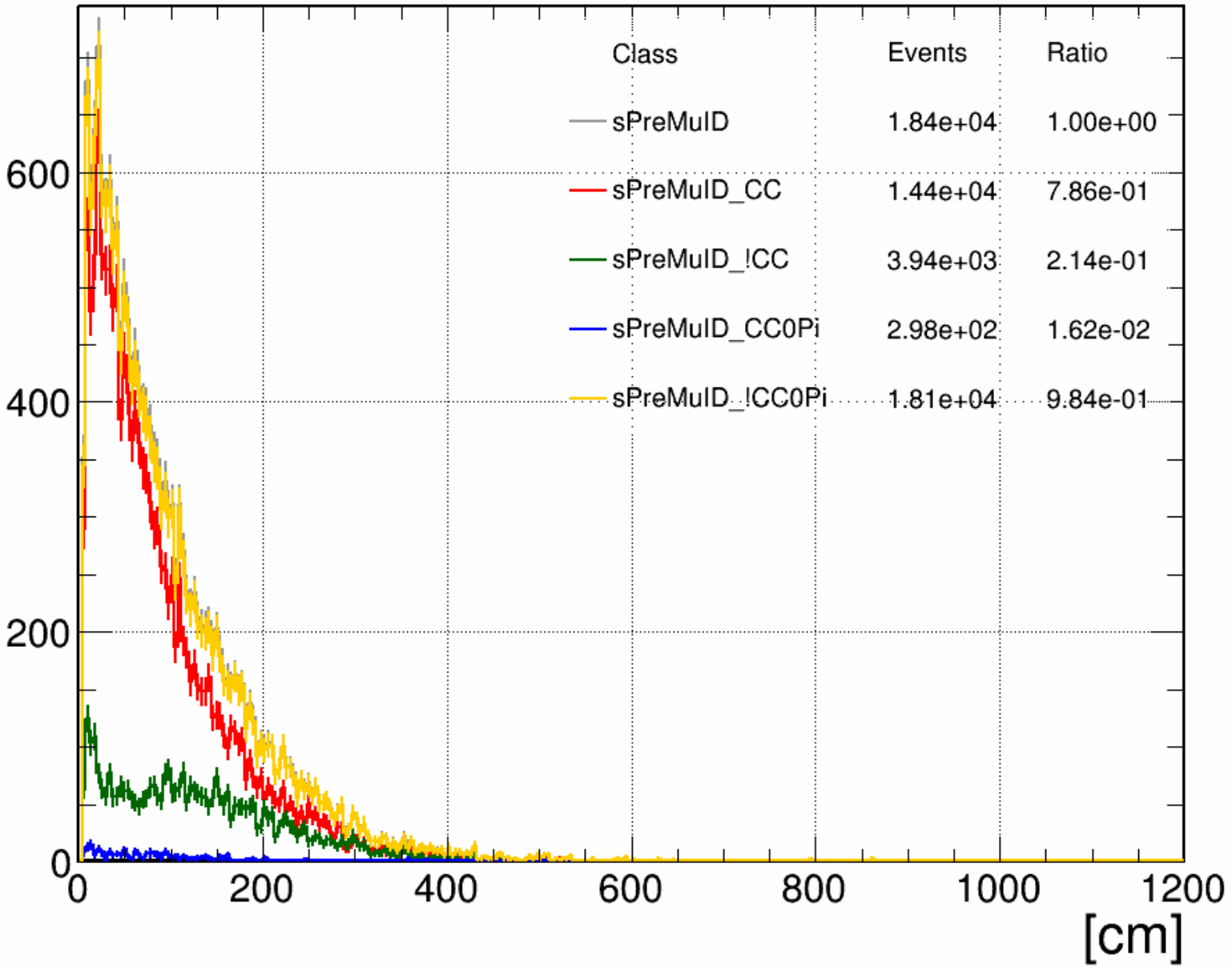
Proton Prong Length



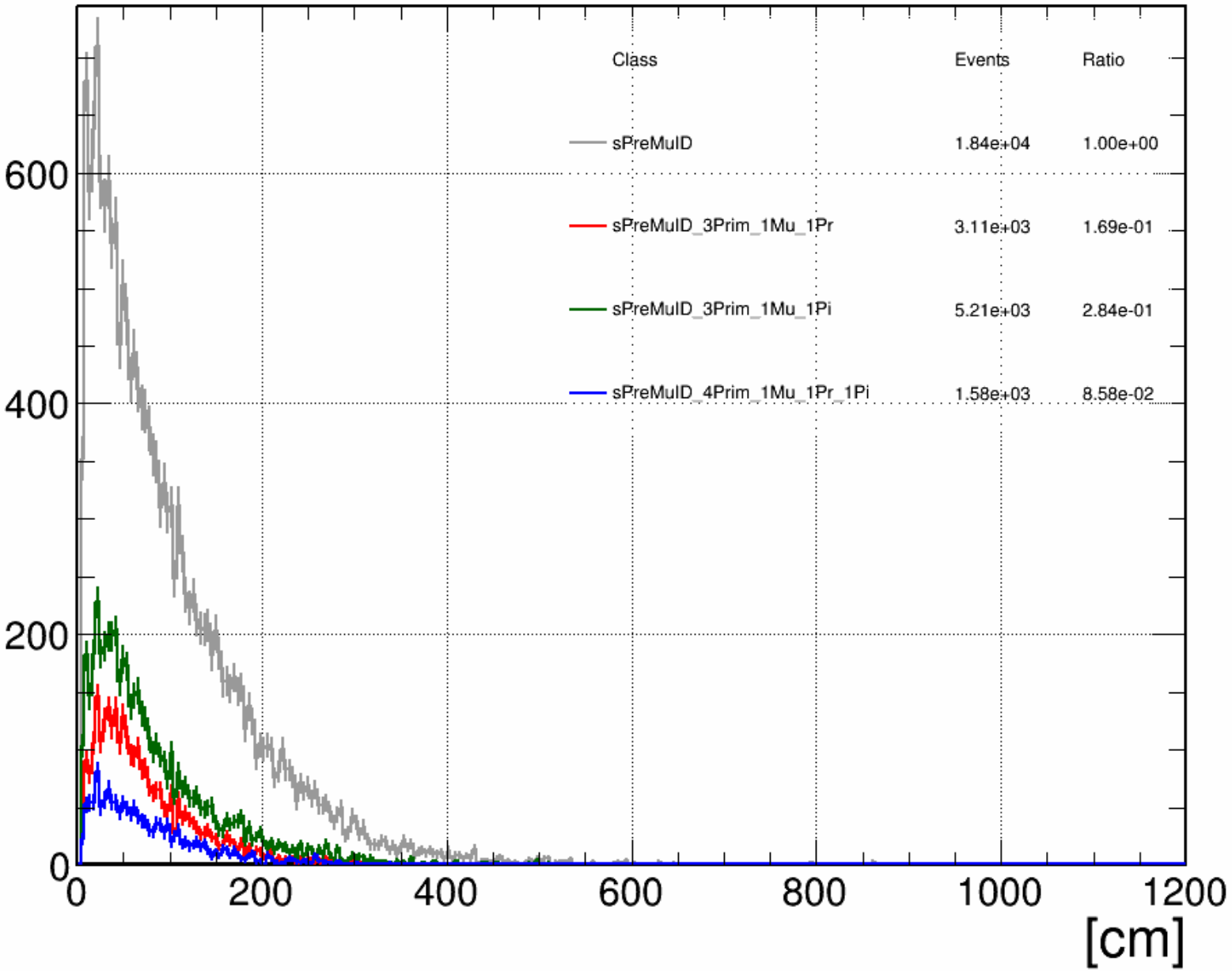
Proton Prong Length



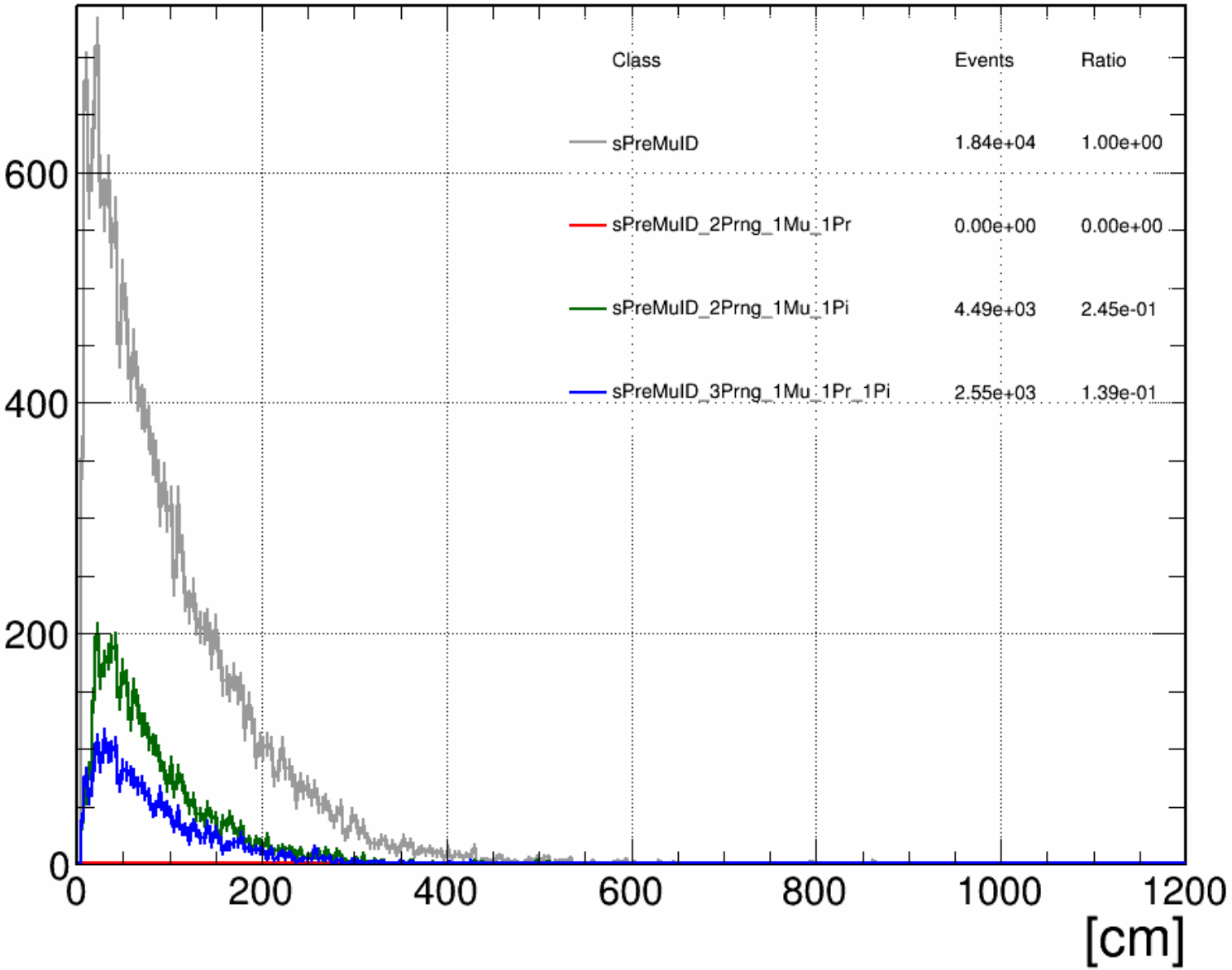
Pion Prong Length



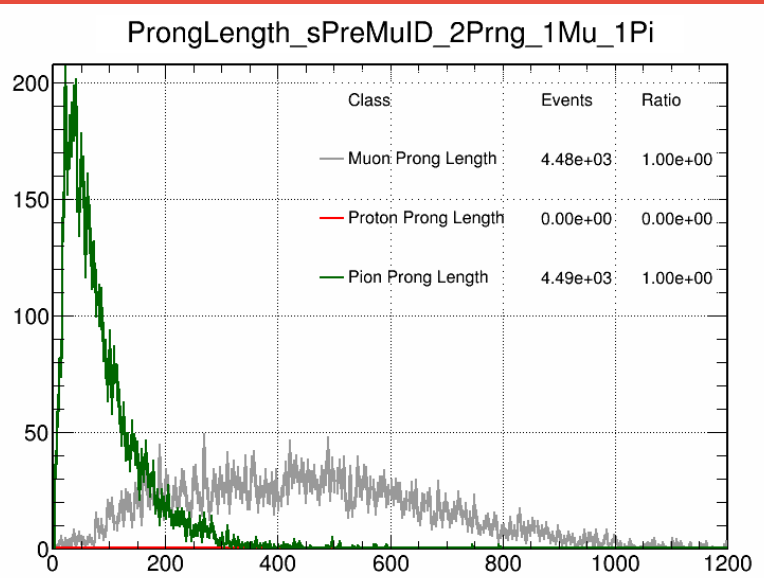
Pion Prong Length

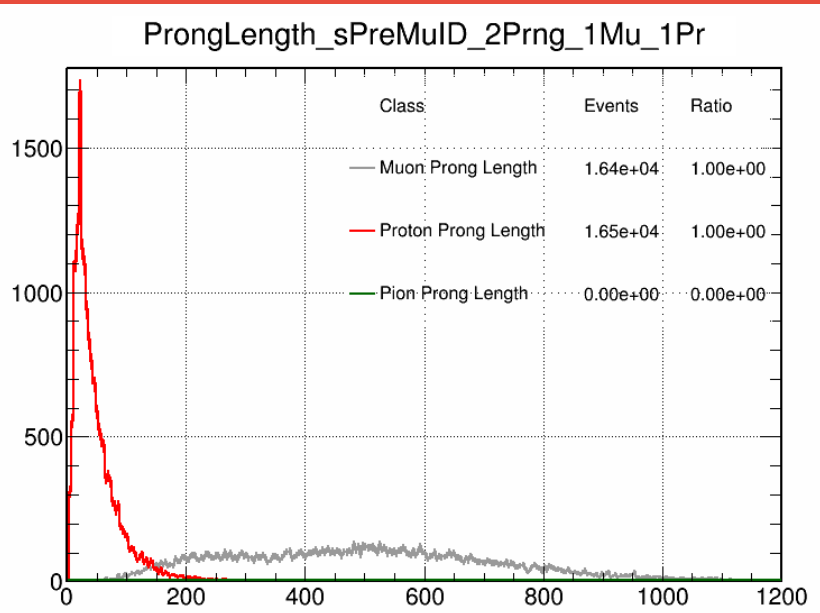


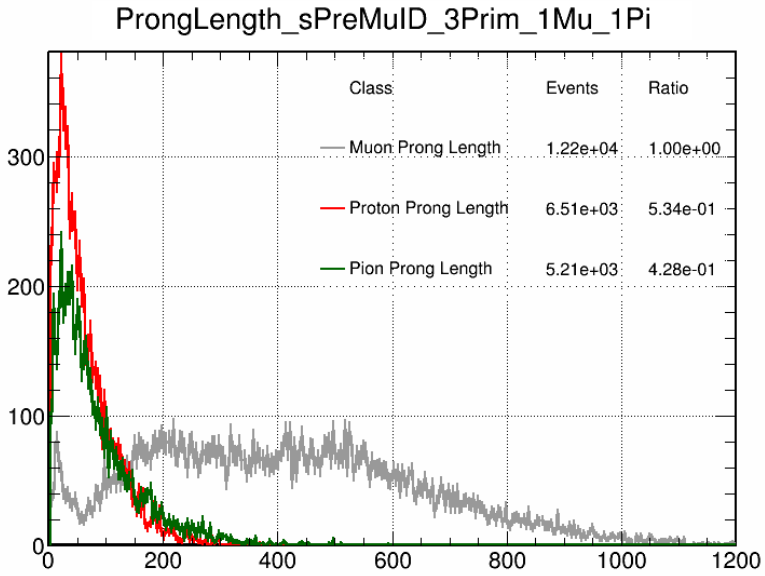
Pion Prong Length

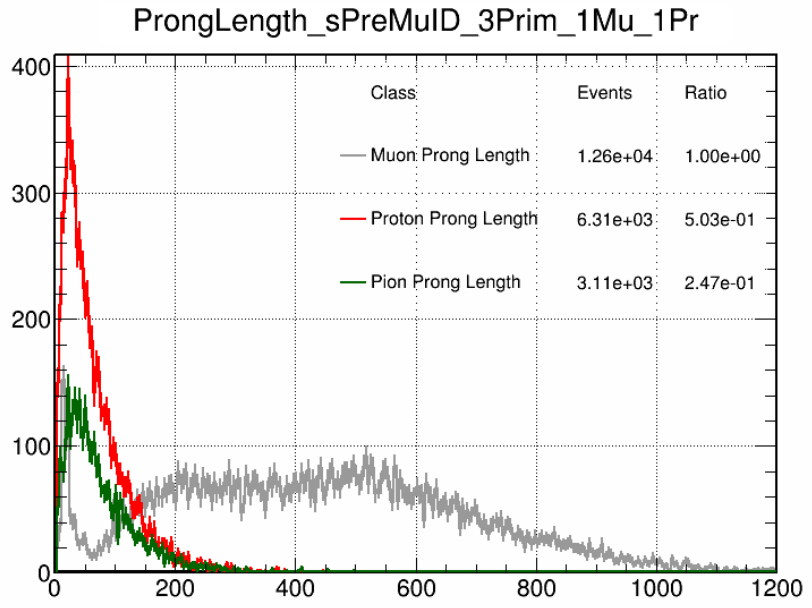


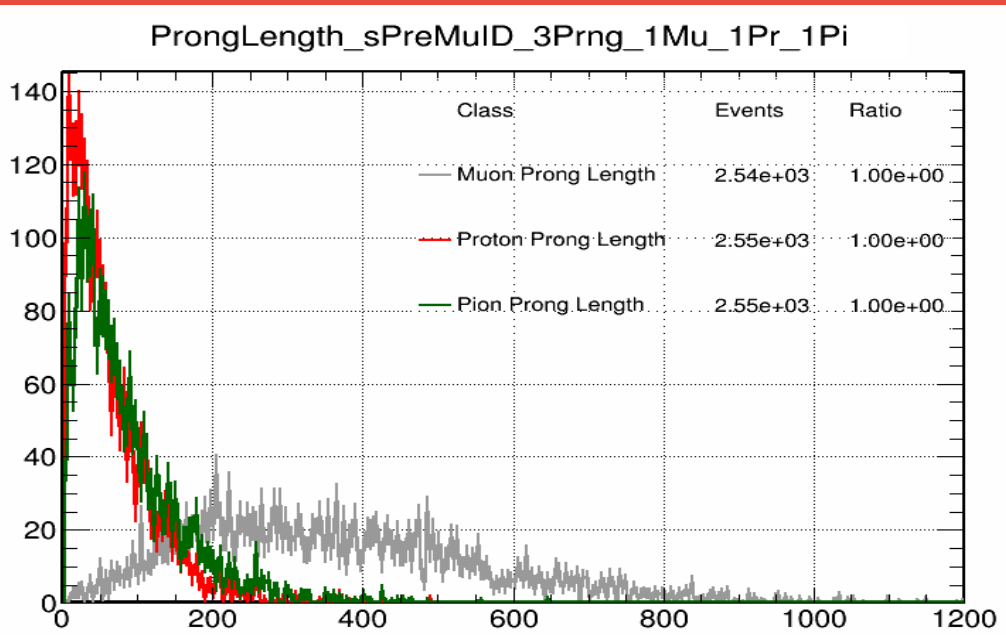
Prong Length : Prongs vs Primaries

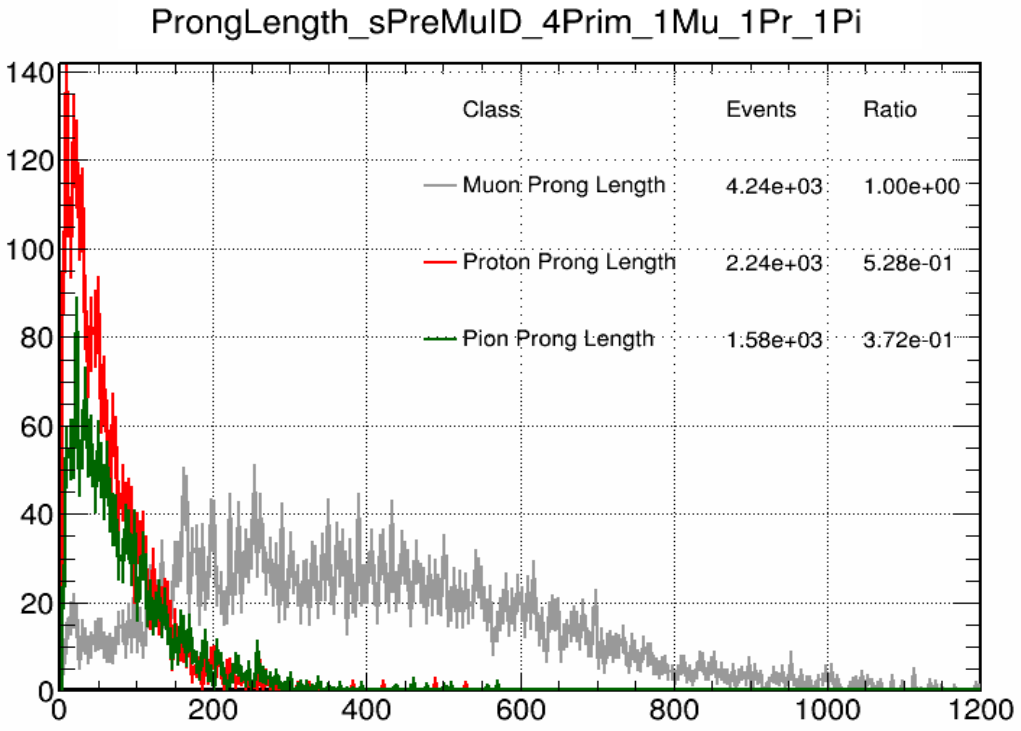

ProngLength_sPreMuID_2Prng_1Mu_1Pi
Class
Events
Ratio
Muon Prong Length
4.48e+03
1.00e+00
Proton Prong Length
0.00e+00
0.00e+00
Pion Prong Length
4.49e+03
1.00e+00
0
50
100
150
200
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_2Prng_1Mu_1Pr
Class
Events
Ratio
Muon Prong Length
1.64e+04
1.00e+00
Proton Prong Length
1.65e+04
1.00e+00
Pion Prong Length
0.00e+00
0.00e+00
0
500
1000
1500
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_3Prim_1Mu_1Pi
Class
Events
Ratio
Muon Prong Length
1.22e+04
1.00e+00
Proton Prong Length
6.51e+03
5.34e-01
Pion Prong Length
5.21e+03
4.28e-01
0
100
200
300
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_3Prim_1Mu_1Pr
Class
Events
Ratio
Muon Prong Length
1.26e+04
1.00e+00
Proton Prong Length
6.31e+03
5.03e-01
Pion Prong Length
3.11e+03
2.47e-01
0
100
200
300
400
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_3Prng_1Mu_1Pr_1Pi
Class
Events
Ratio
Muon Prong Length 2.54e+03 1.00e+00
Proton Prong Length 2.55e+03 1.00e+00
Pion Prong Length 2.55e+03 1.00e+00
0
20
40
60
80
100
120
140
0
200
400
600
800
1000
1200


ProngLength_sPreMuID_4Prim_1Mu_1Pr_1Pi
Class
Events
Ratio
Muon Prong Length 4.24e+03 1.00e+00
Proton Prong Length 2.24e+03 5.28e-01
Pion Prong Length 1.58e+03 3.72e-01
0
20
40
60
80
100
120
140
0
200
400
600
800
1000
1200