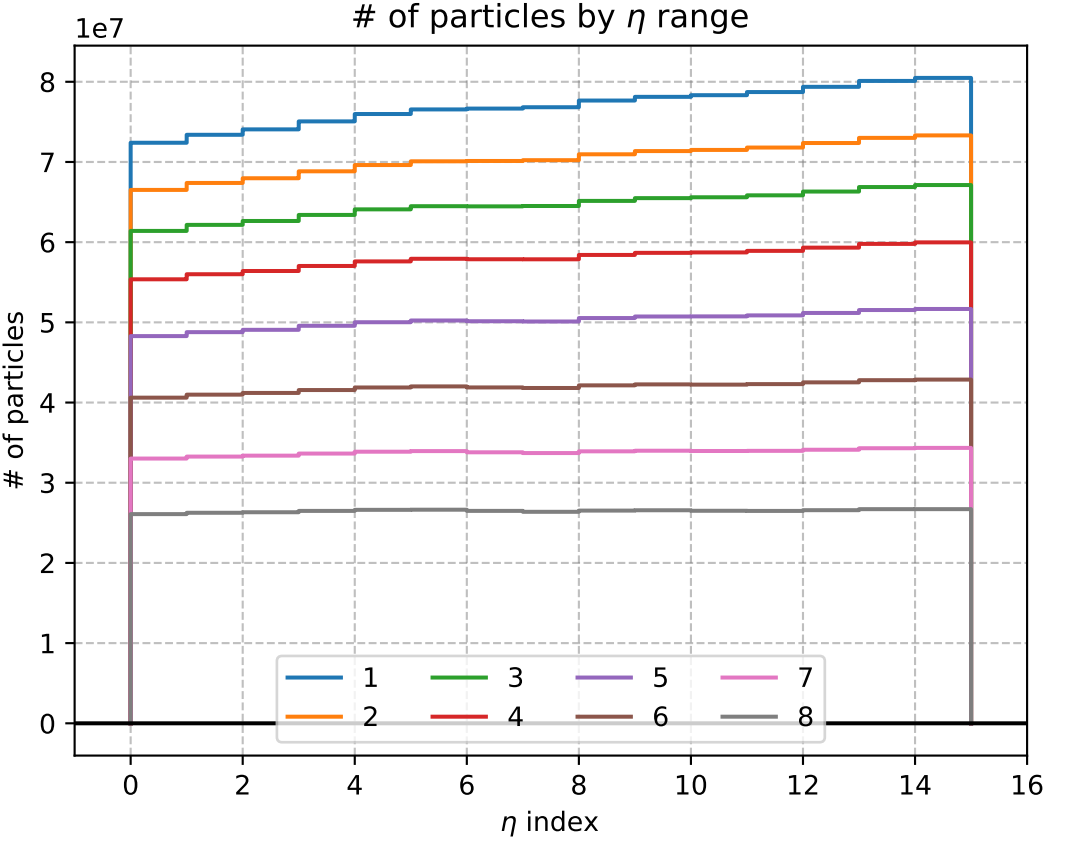
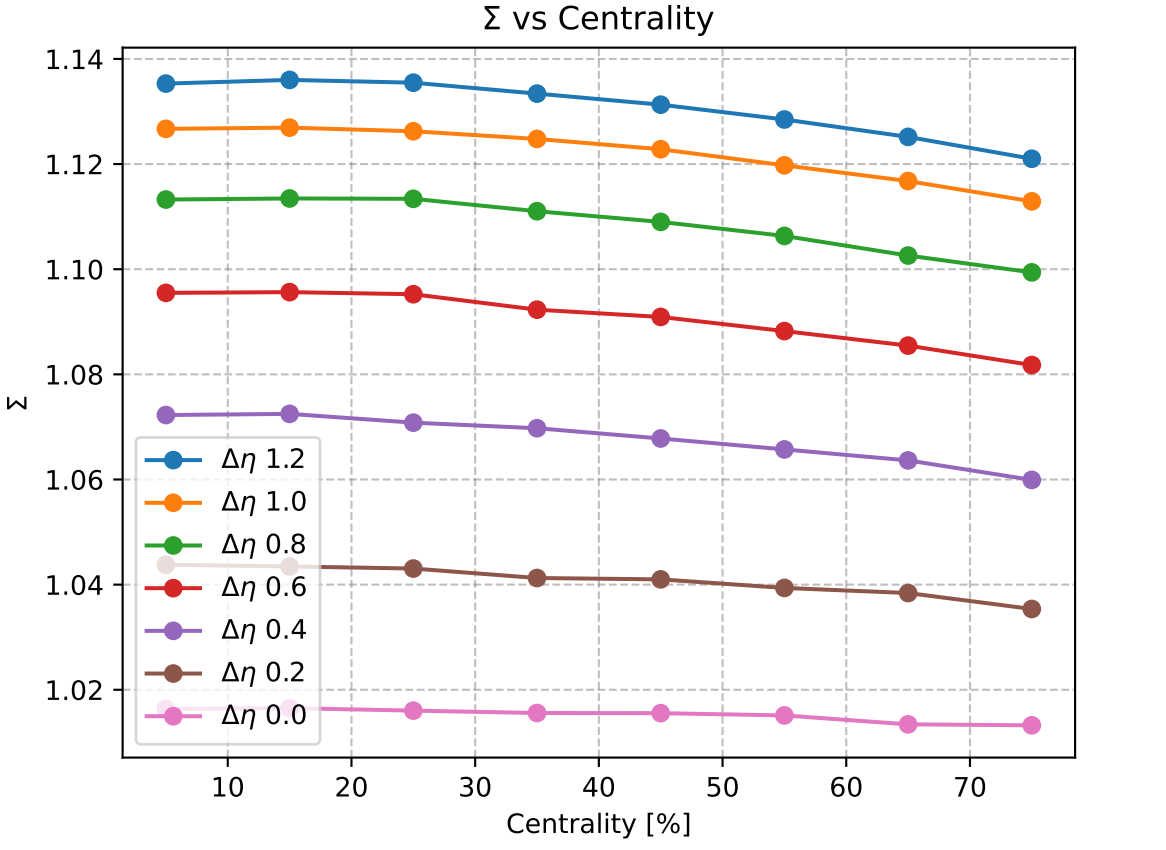
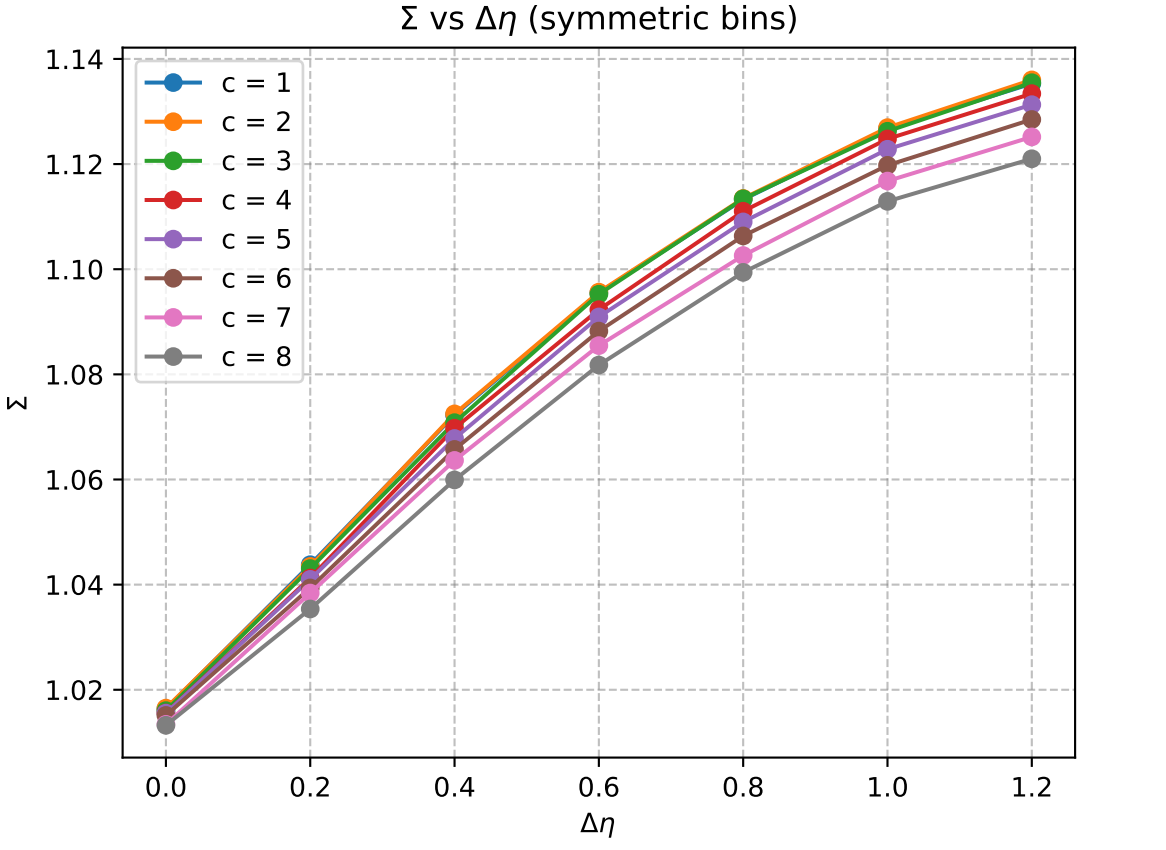
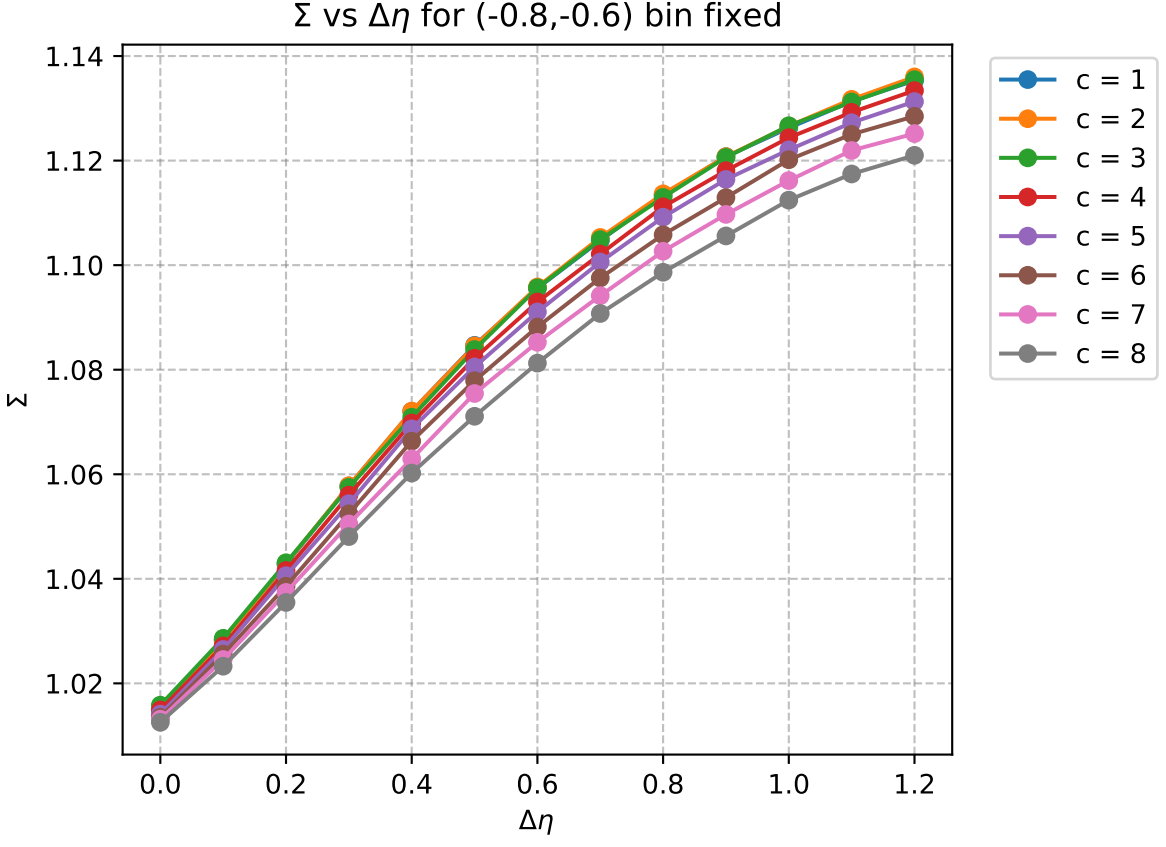
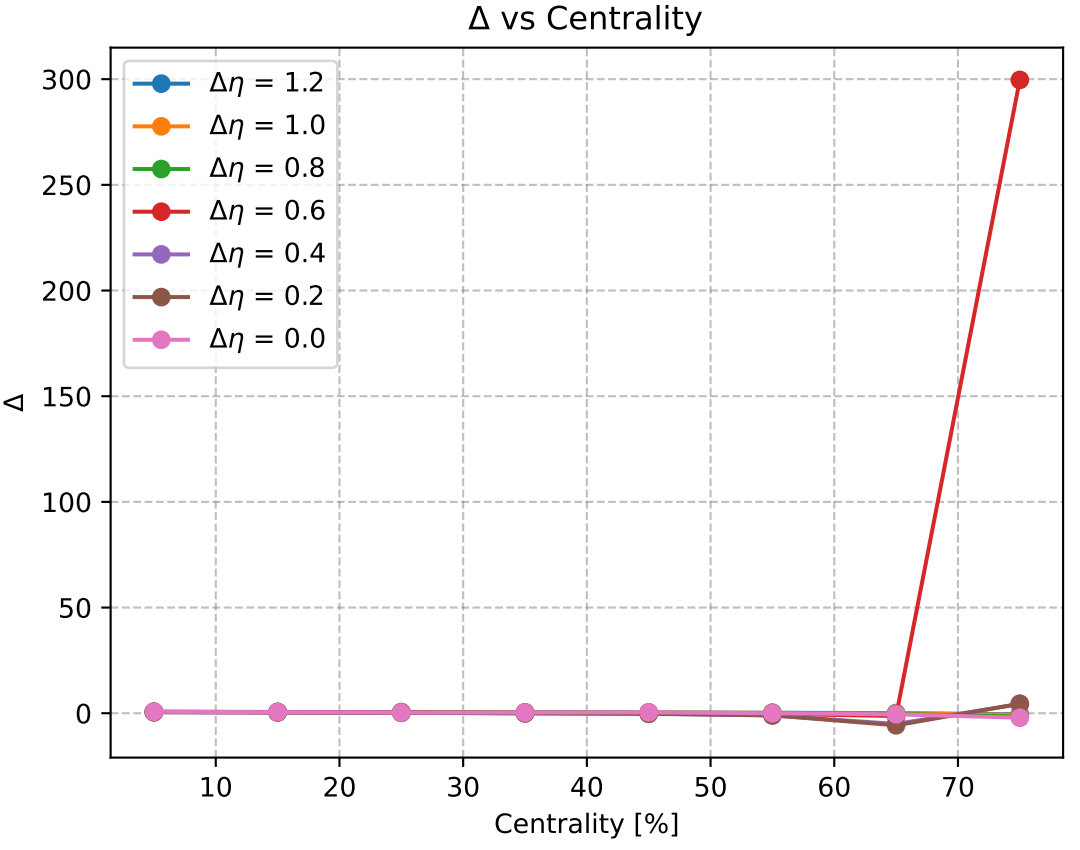
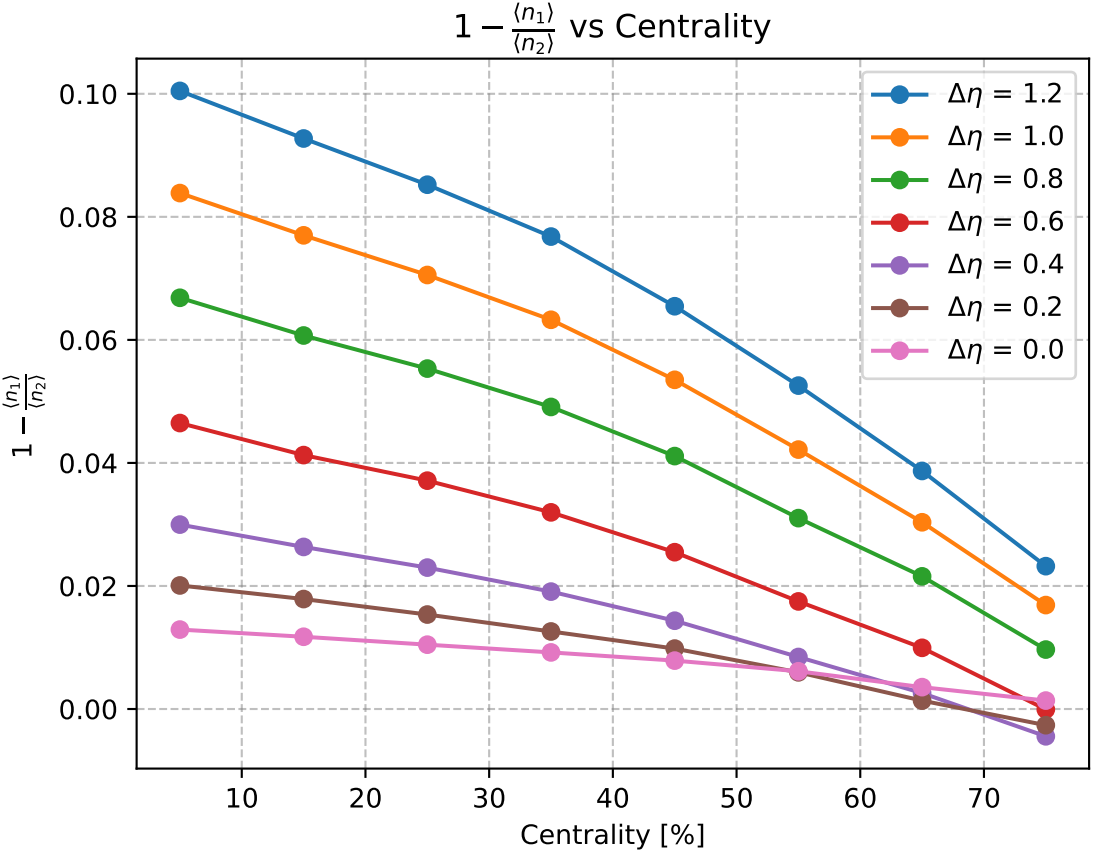

# of particles by η range
1e7
# of particles
η index
0
1
2
3
4
5
6
7
8
0
2
4
6
8
10
12
14
16
1
2
3
4
5
6
7
8

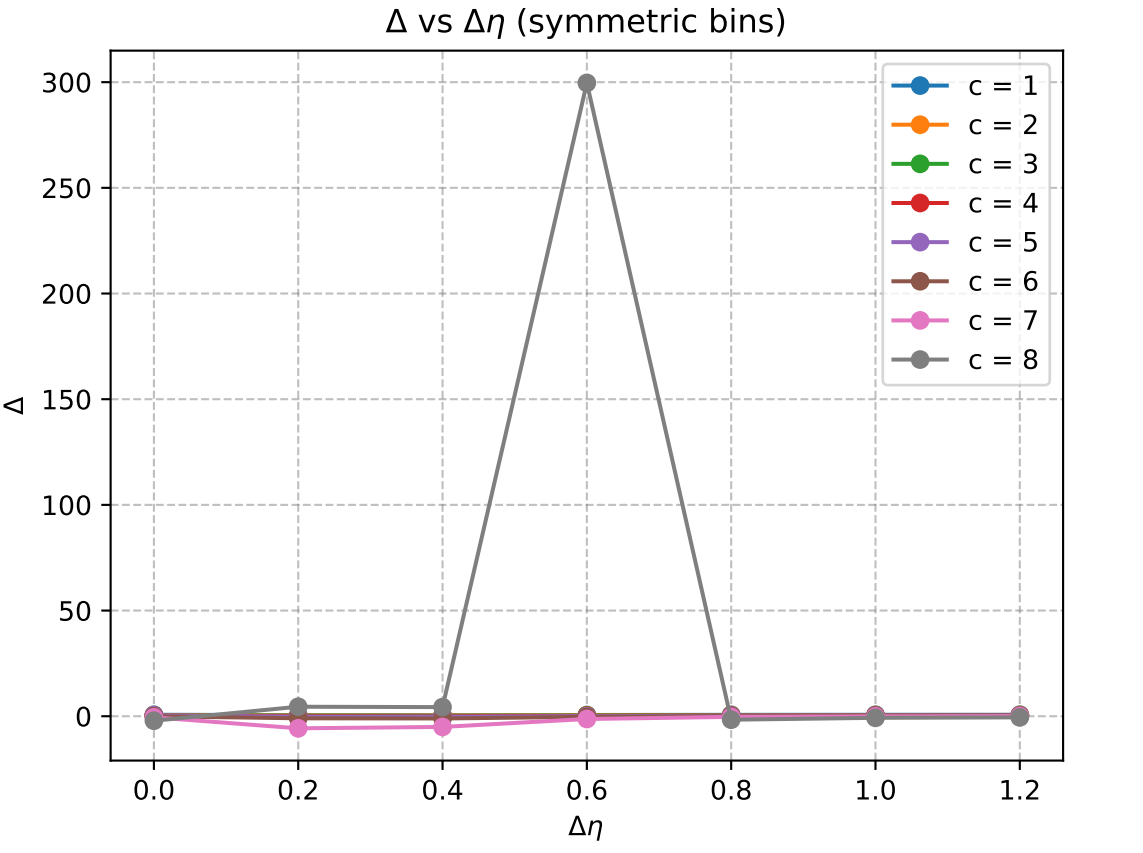

Σ vs Centrality
1.14
1.12
1.10
1.08
1.06
1.04
1.02
Σ
10
20
30
40
50
60
70
Centrality [%]
Δη 1.2
Δη 1.0
Δη 0.8
Δη 0.6
Δη 0.4
Δη 0.2
Δη 0.0

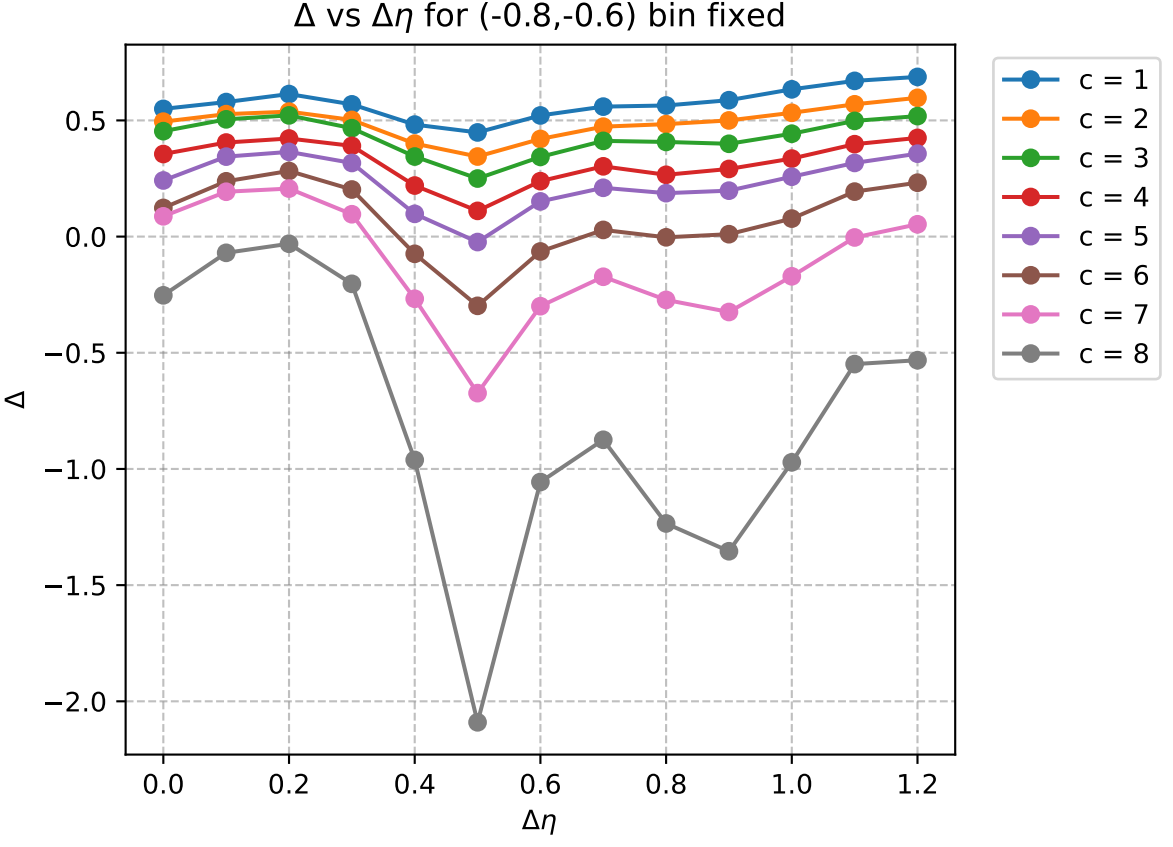

Σ vs Δη (symmetric bins)
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8
1.14
1.12
1.10
1.08
1.06
1.04
1.02
Σ
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Δη

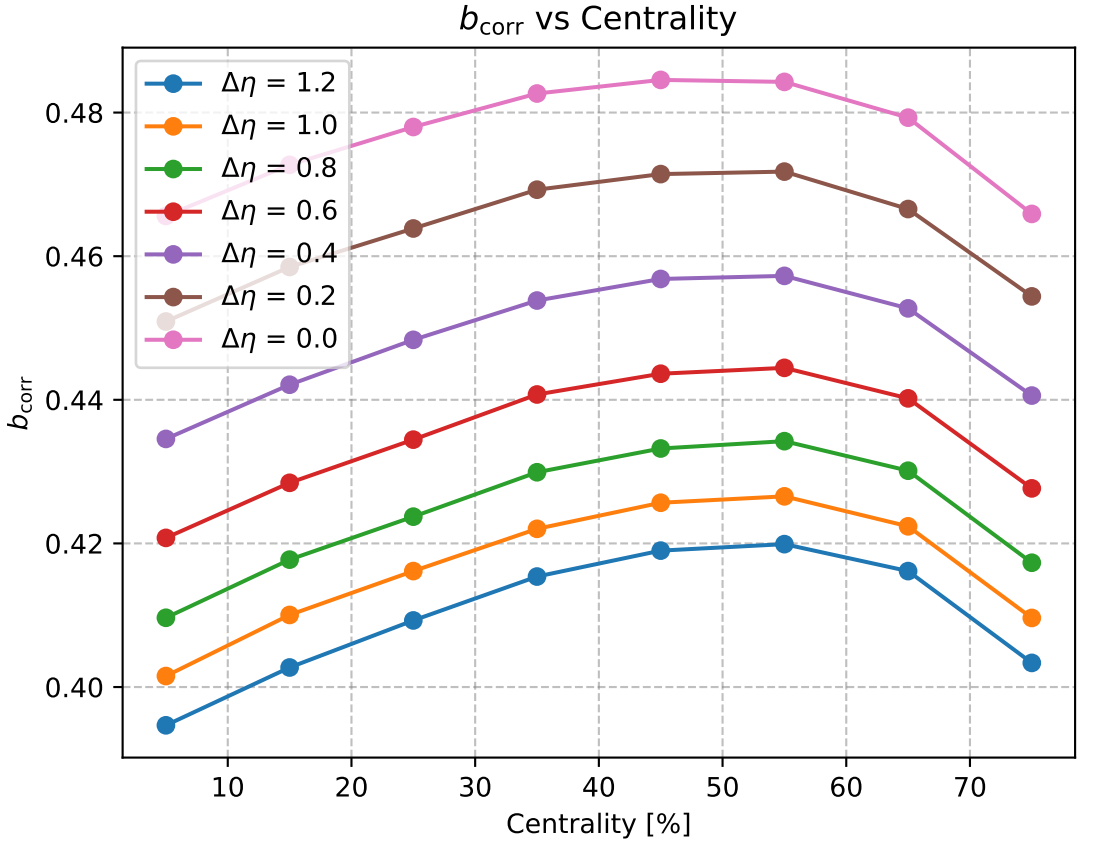

Σ vs Δη for (-0.8,-0.6) bin fixed
1.14
1.12
1.10
1.08
1.06
1.04
1.02
Σ
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Δη
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8

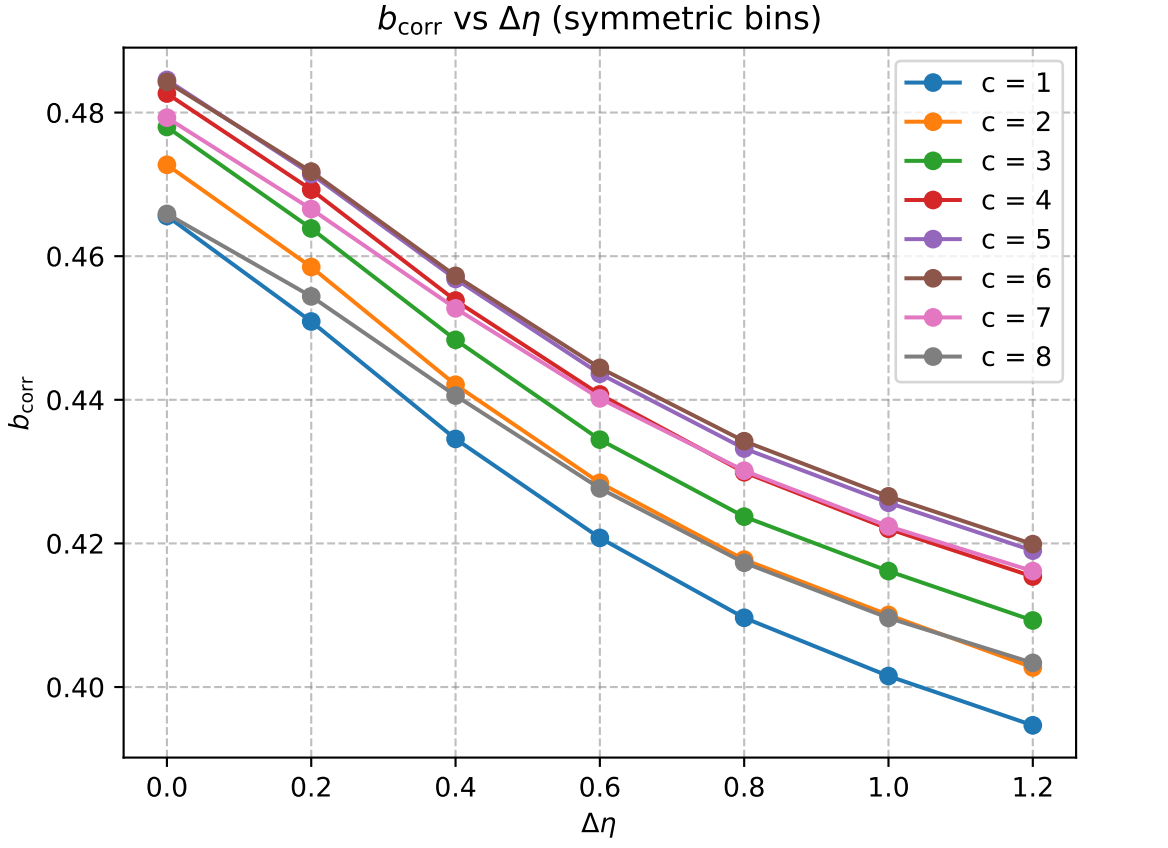

Δ vs Centrality
Δη = 1.2
Δη = 1.0
Δη = 0.8
Δη = 0.6
Δη = 0.4
Δη = 0.2
Δη = 0.0
Δ
300
250
200
150
100
50
0
10
20
30
40
50
60
70
Centrality [%]

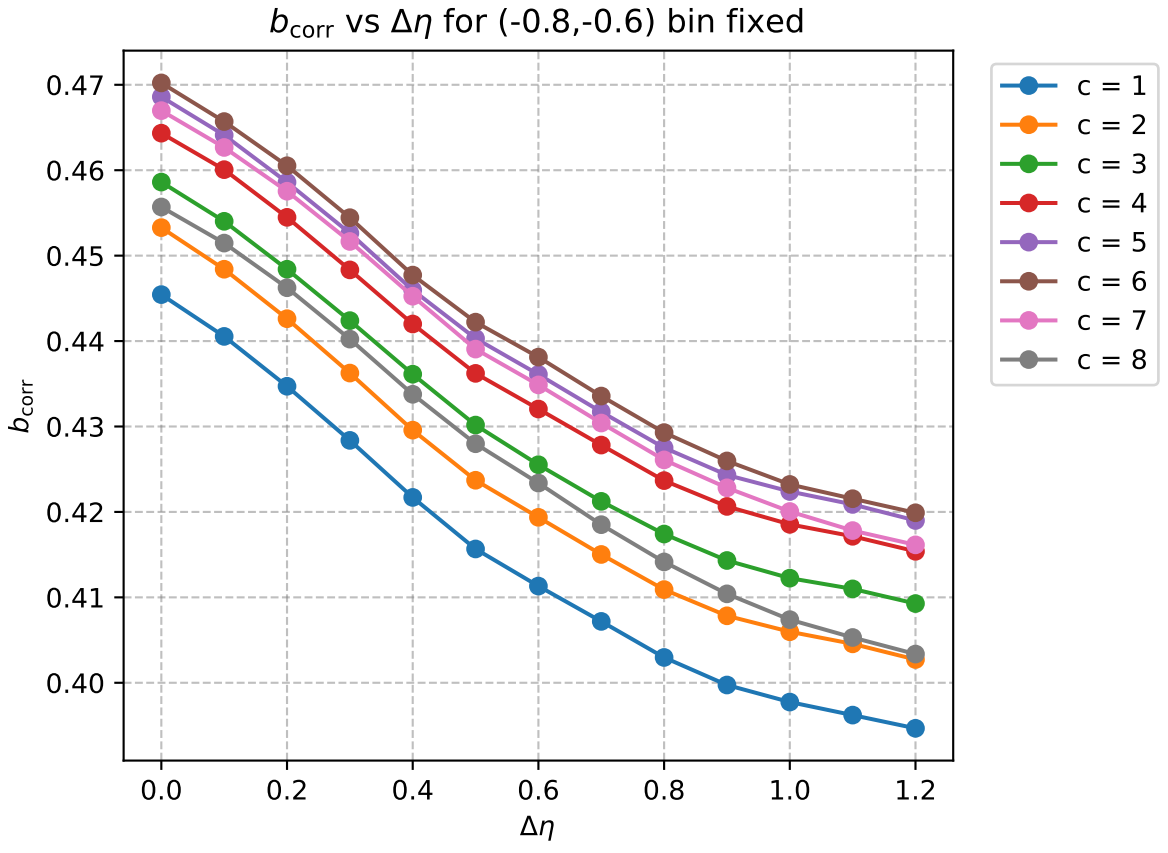

$1 - \frac{\langle n_1 \rangle}{\langle n_2 \rangle}$ vs Centrality
$1 - \frac{\langle n_1 \rangle}{\langle n_2 \rangle}$
Centrality [%]
0.10
0.08
0.06
0.04
0.02
0.00
10
20
30
40
50
60
70
$\Delta\eta$ = 1.2
$\Delta\eta$ = 1.0
$\Delta\eta$ = 0.8
$\Delta\eta$ = 0.6
$\Delta\eta$ = 0.4
$\Delta\eta$ = 0.2
$\Delta\eta$ = 0.0

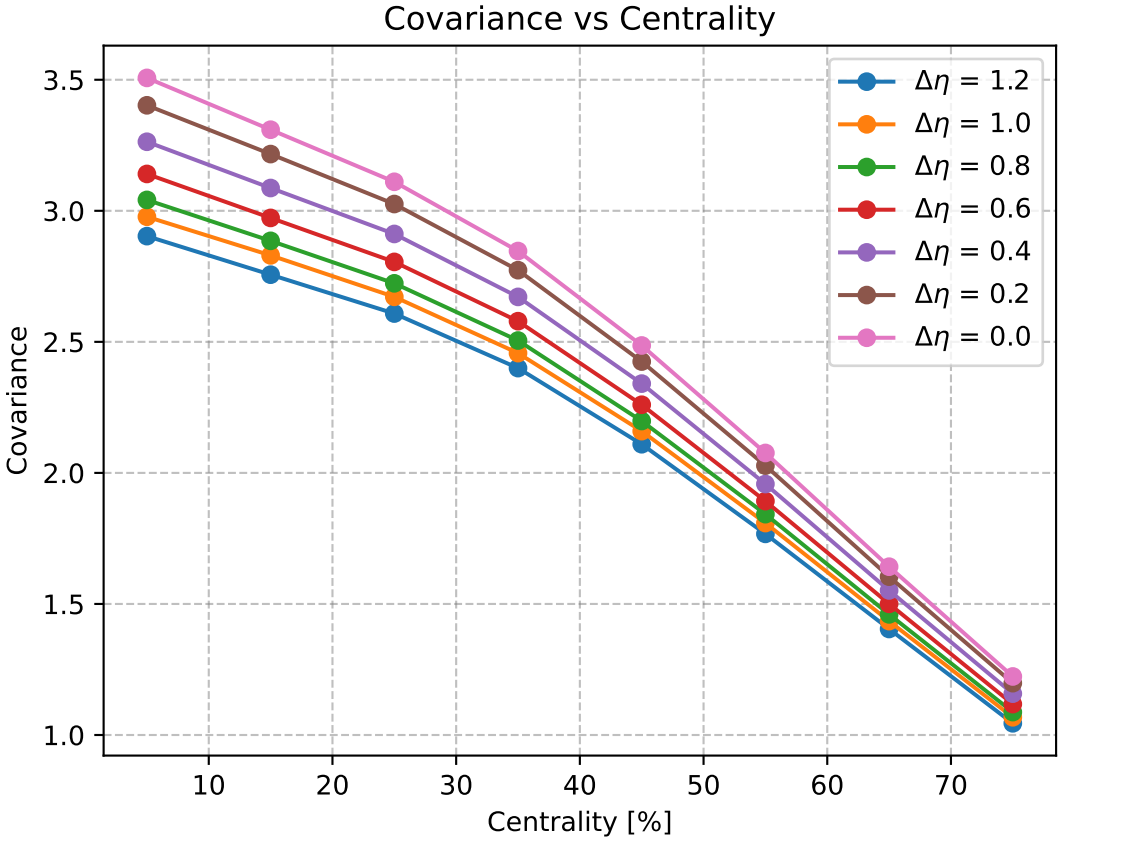

Δ vs Δη (symmetric bins)
Δ
Δη
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8

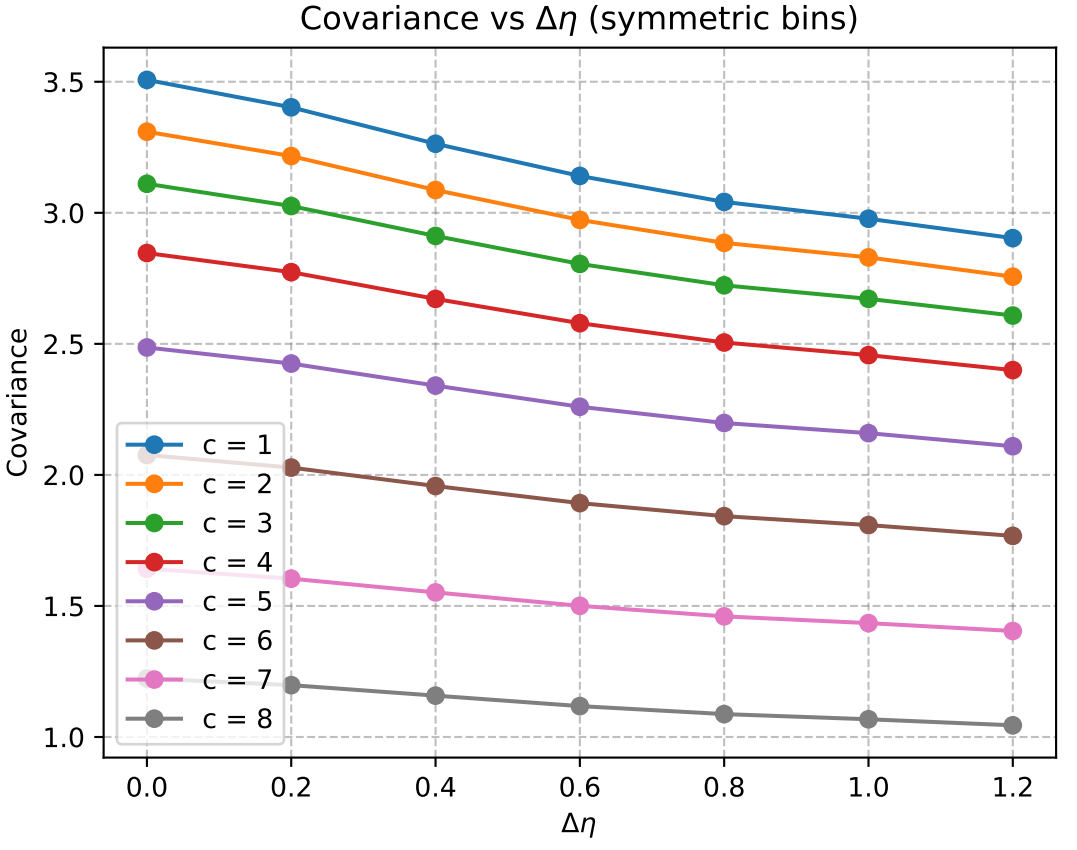

Δ vs Δη for (-0.8,-0.6) bin fixed
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8
Δ
Δη
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2

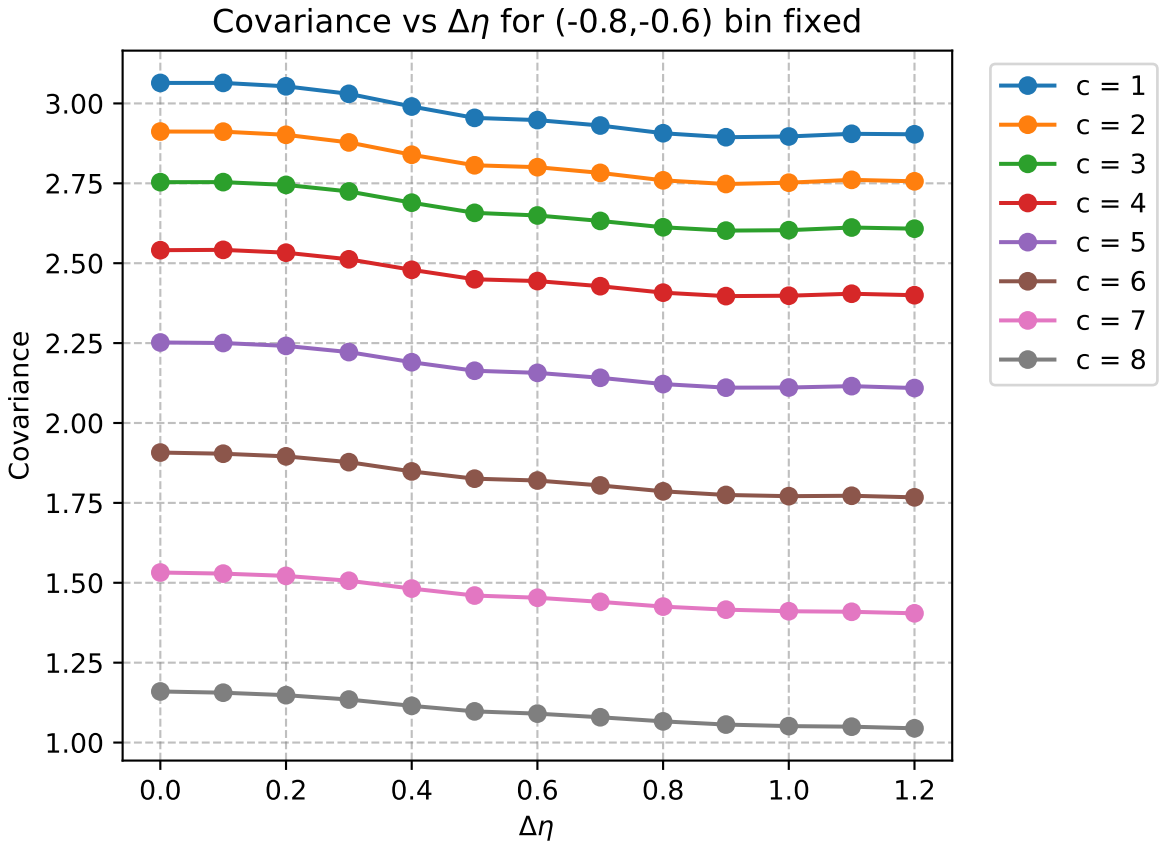

b_{corr} vs Centrality
$\Delta\eta$ = 1.2
$\Delta\eta$ = 1.0
$\Delta\eta$ = 0.8
$\Delta\eta$ = 0.6
$\Delta\eta$ = 0.4
$\Delta\eta$ = 0.2
$\Delta\eta$ = 0.0
0.48
0.46
0.44
0.42
0.40
b_{corr}
10
20
30
40
50
60
70
Centrality [%]

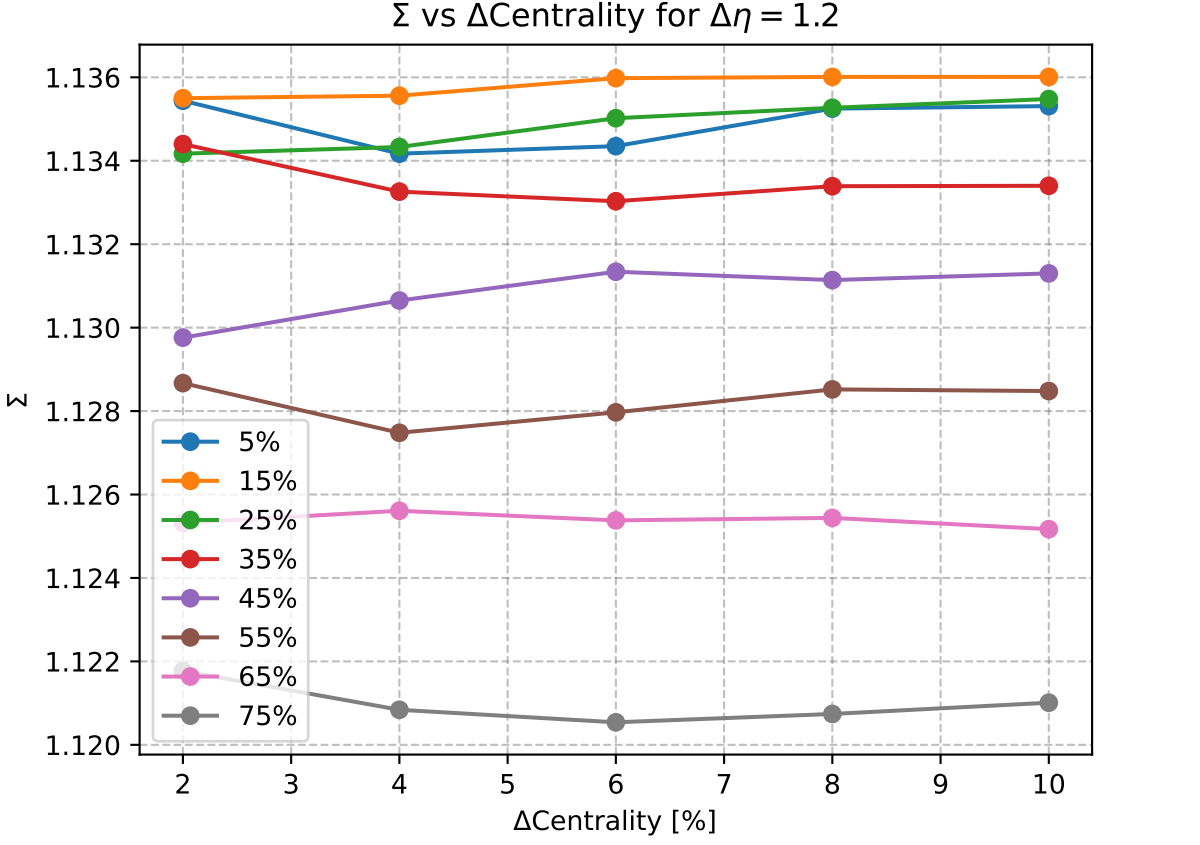

b_{corr} vs $\Delta\eta$ (symmetric bins)
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8
0.48
0.46
0.44
0.42
0.40
b_{corr}
0.0
0.2
0.4
0.6
0.8
1.0
1.2
$\Delta\eta$

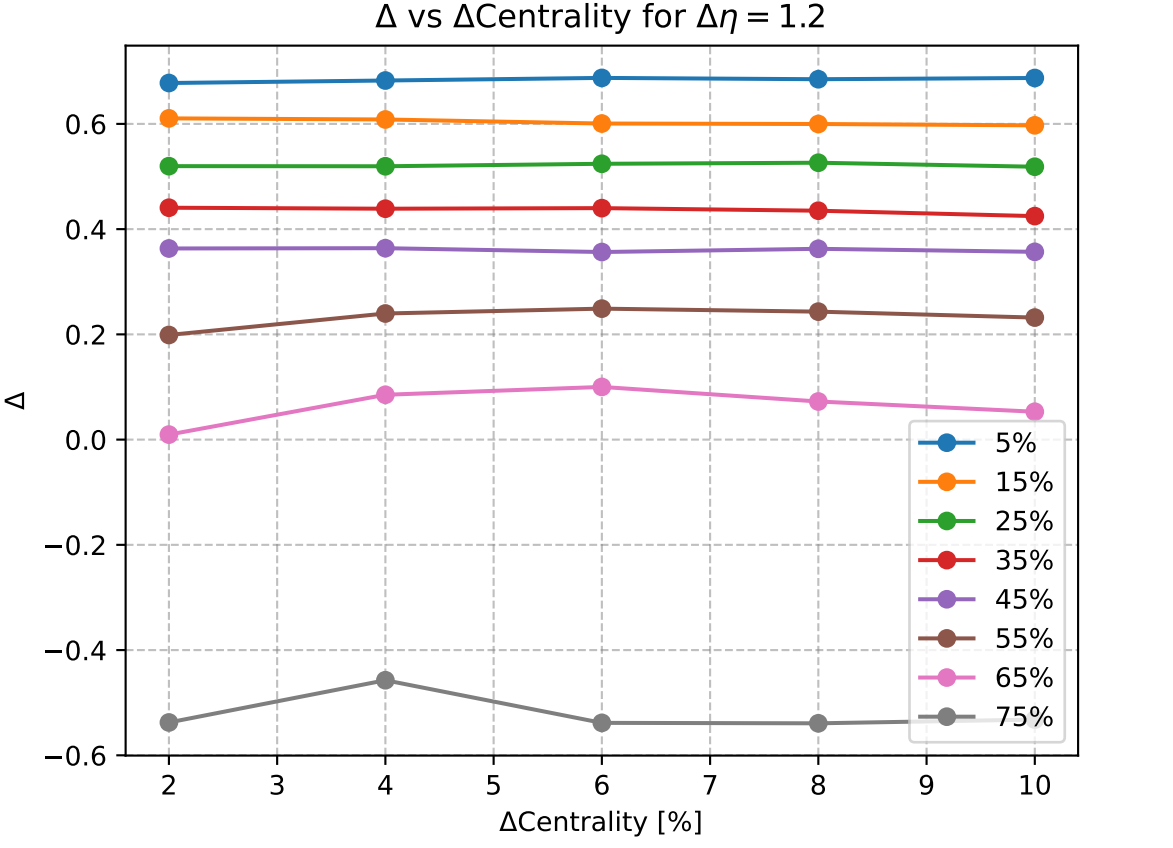

b_{corr} vs $\Delta\eta$ for (-0.8,-0.6) bin fixed
0.47
0.46
0.45
0.44
0.43
0.42
0.41
0.40
b_{corr}
0.0
0.2
0.4
0.6
0.8
1.0
1.2
$\Delta\eta$
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8

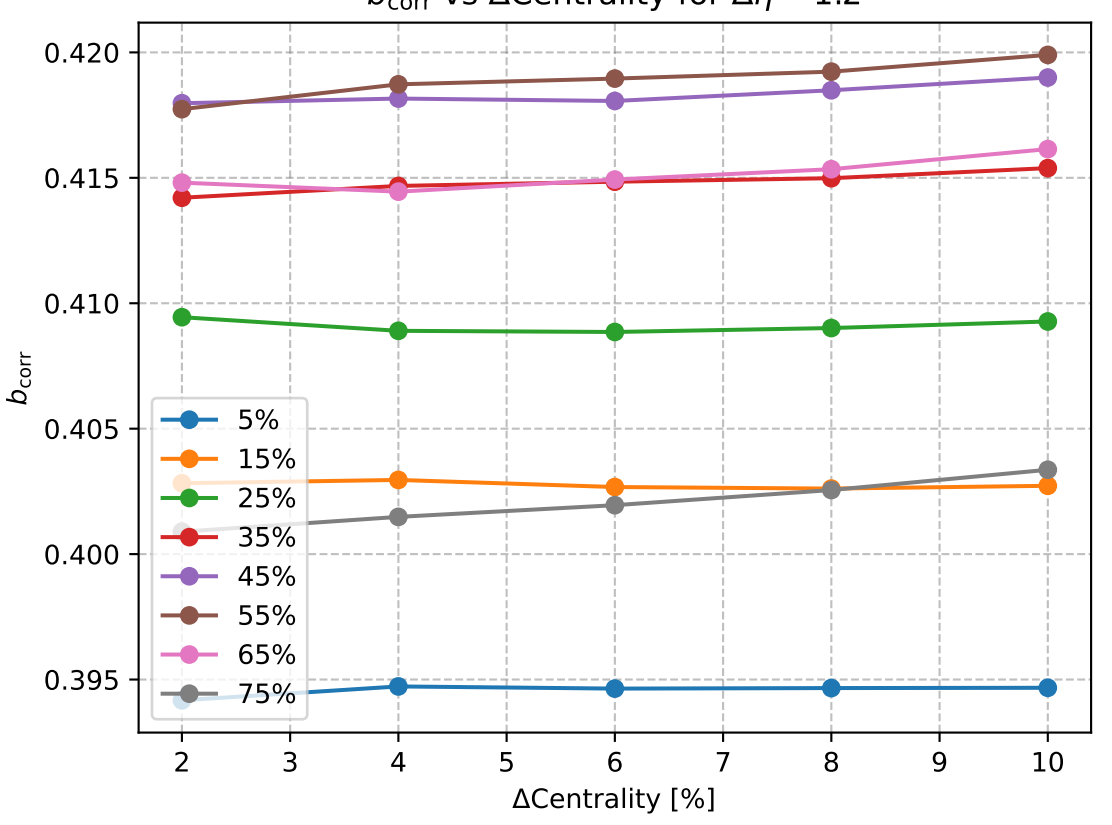

Covariance vs Centrality
Covariance
Centrality [%]
1.0
1.5
2.0
2.5
3.0
3.5
10
20
30
40
50
60
70
Δη = 1.2
Δη = 1.0
Δη = 0.8
Δη = 0.6
Δη = 0.4
Δη = 0.2
Δη = 0.0


Covariance vs Δη (symmetric bins)
Covariance
Δη
3.5
3.0
2.5
2.0
1.5
1.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8


Covariance vs Δη for (-0.8,-0.6) bin fixed
Covariance
Δη
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.0
0.2
0.4
0.6
0.8
1.0
1.2
c = 1
c = 2
c = 3
c = 4
c = 5
c = 6
c = 7
c = 8


Σ vs ΔCentrality for Δη = 1.2
Σ
ΔCentrality [%]
1.136
1.134
1.132
1.130
1.128
1.126
1.124
1.122
1.120
2
3
4
5
6
7
8
9
10
5%
15%
25%
35%
45%
55%
65%
75%


Δ vs ΔCentrality for Δη = 1.2
Δ
ΔCentrality [%]
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
2
3
4
5
6
7
8
9
10
5%
15%
25%
35%
45%
55%
65%
75%


b_{corr} vs ΔCentrality for $\Delta\eta = 1.2$
0.420
0.415
0.410
0.405
0.400
0.395
b_{corr}
5%
15%
25%
35%
45%
55%
65%
75%
2
3
4
5
6
7
8
9
10
ΔCentrality [%]