

ST Efficiencies Comparison Between Data and Simulation

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Run Conditions and ST Intervals

Runs 10491 up to 10498

12 h of beam

594 M events

30 -50 nA

mode 7

Simulation: ~0.4 M events from sim1/smeared

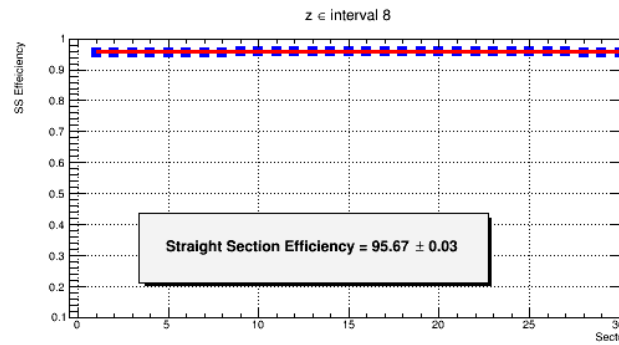
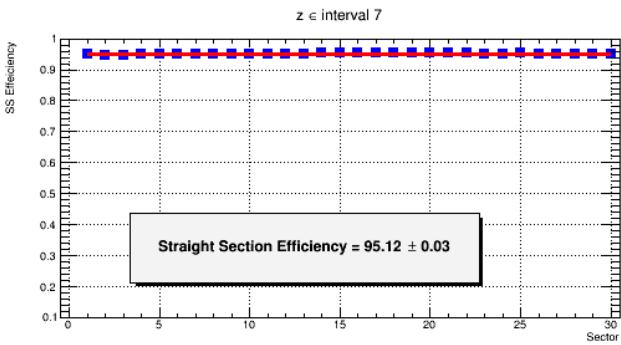
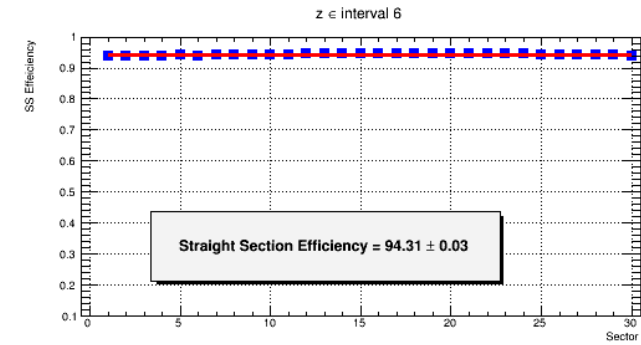
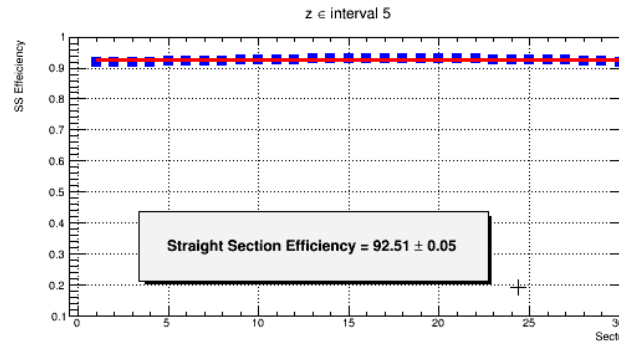
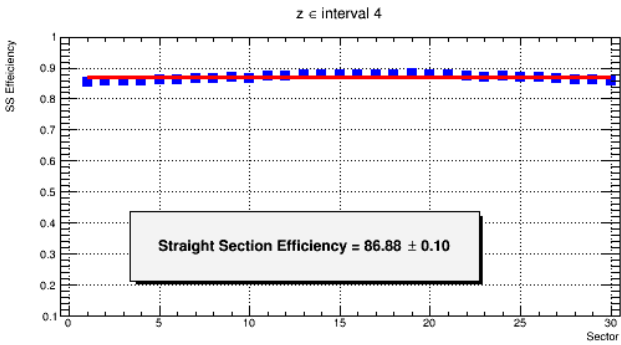
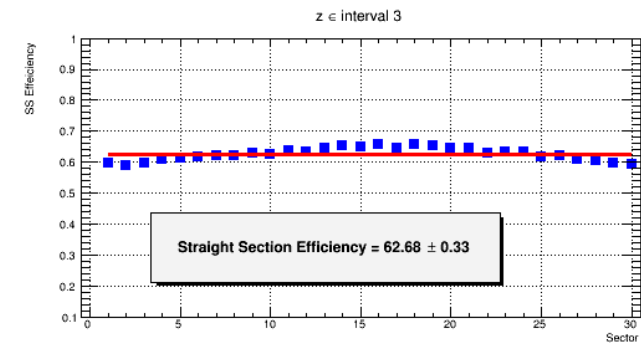
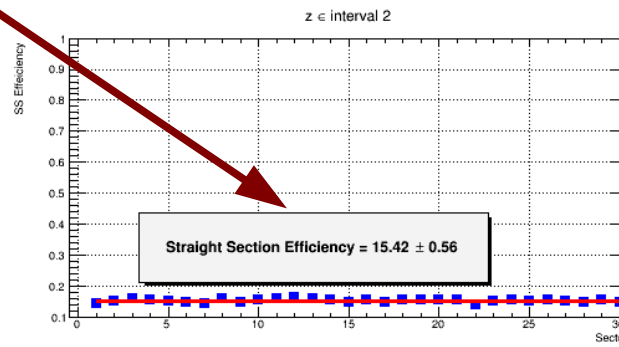
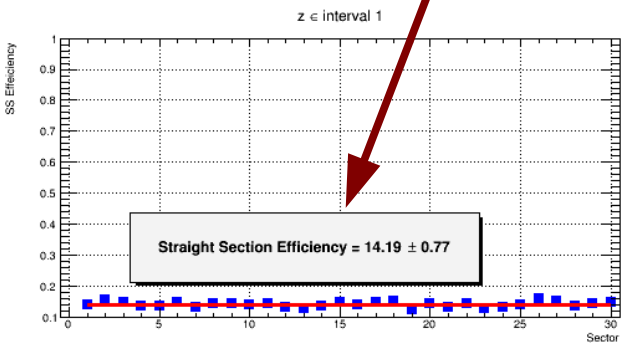
Straight Section: 8 intervals of ~5 cm length

Bend Section: 4 intervals of ~ 0.8 cm length

Nose Section: 8 intervals of ~2 cm length

Straight Section (Data)

Only backward going tracks

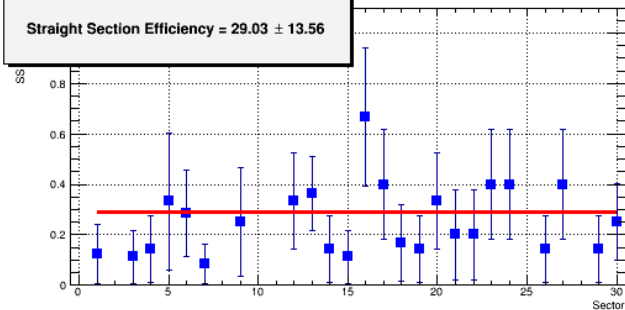


Straight Section (Sim1)

Only backward going tracks

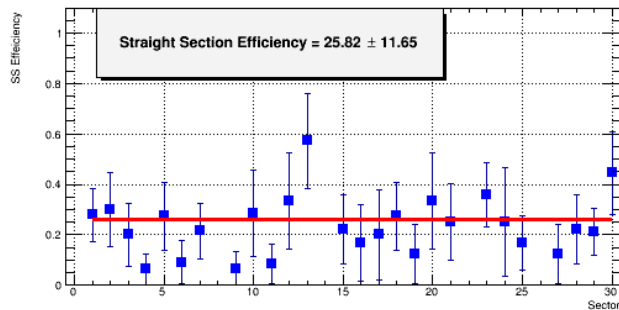
$z \in \text{interval 1}$

Straight Section Efficiency = 29.03 ± 13.56



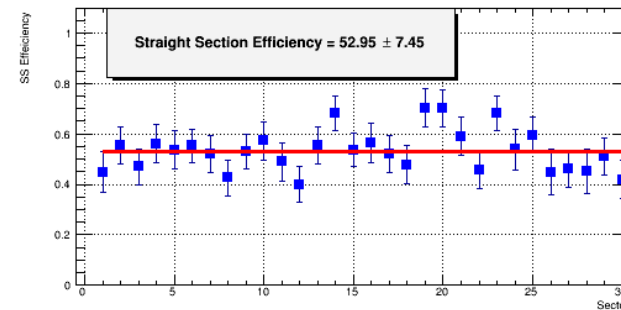
$z \in \text{interval 2}$

Straight Section Efficiency = 25.82 ± 11.65



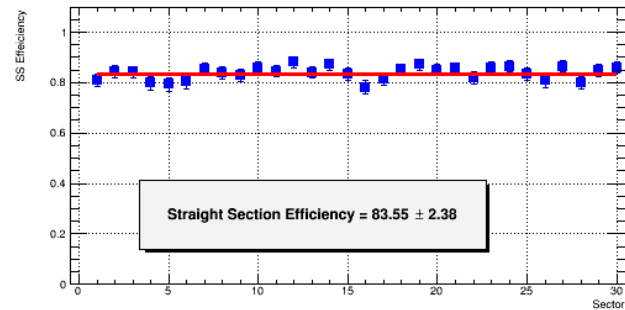
$z \in \text{interval 3}$

Straight Section Efficiency = 52.95 ± 7.45



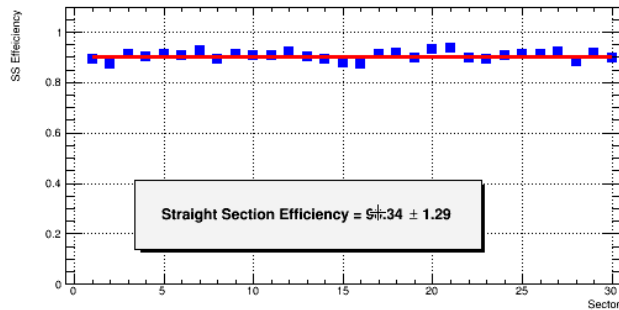
$z \in \text{interval 4}$

Straight Section Efficiency = 83.55 ± 2.38



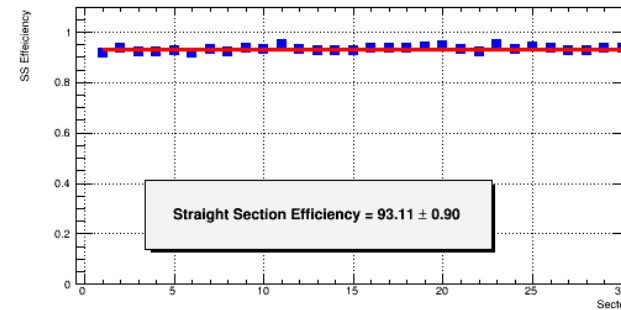
$z \in \text{interval 5}$

Straight Section Efficiency = 91.34 ± 1.29



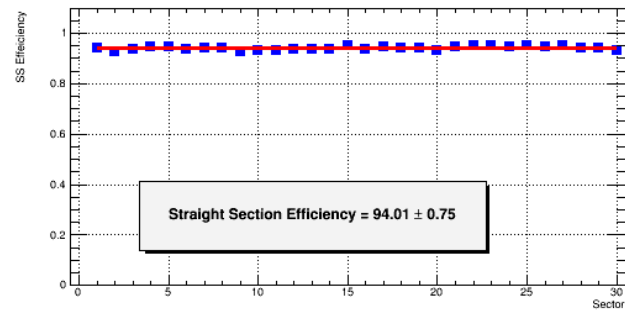
$z \in \text{interval 6}$

Straight Section Efficiency = 93.11 ± 0.90



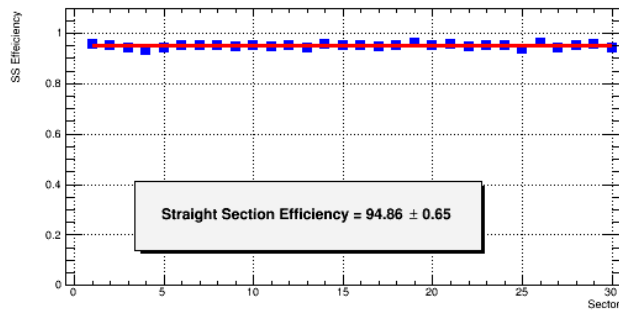
$z \in \text{interval 7}$

Straight Section Efficiency = 94.01 ± 0.75



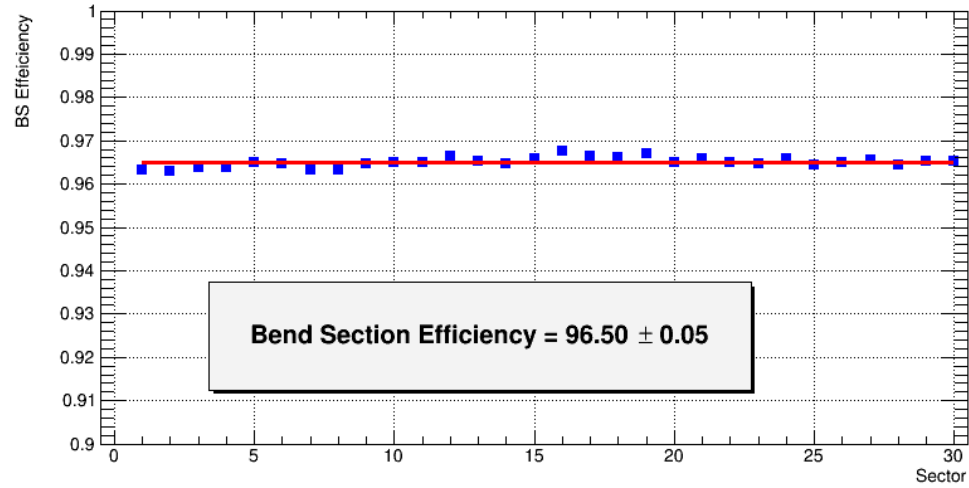
$z \in \text{interval 8}$

Straight Section Efficiency = 94.86 ± 0.65

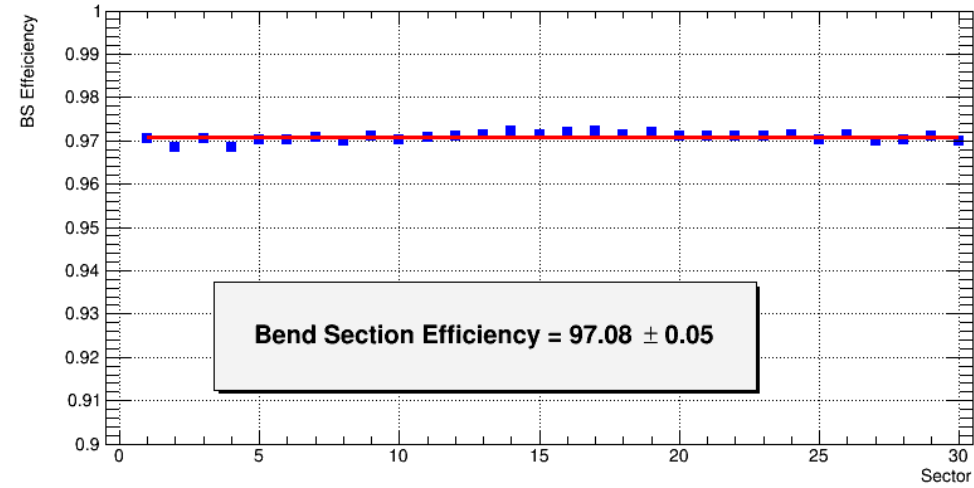


Bend Section (Data)

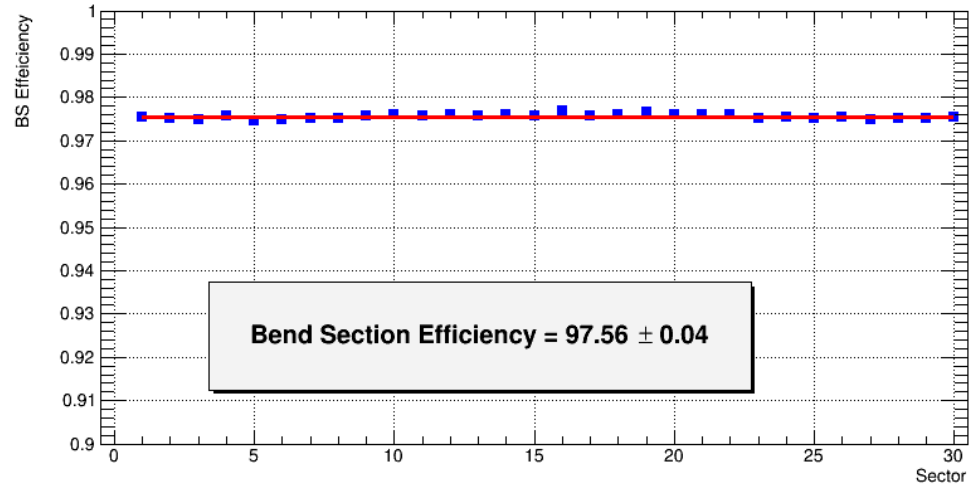
$z \in \text{interval 1}$



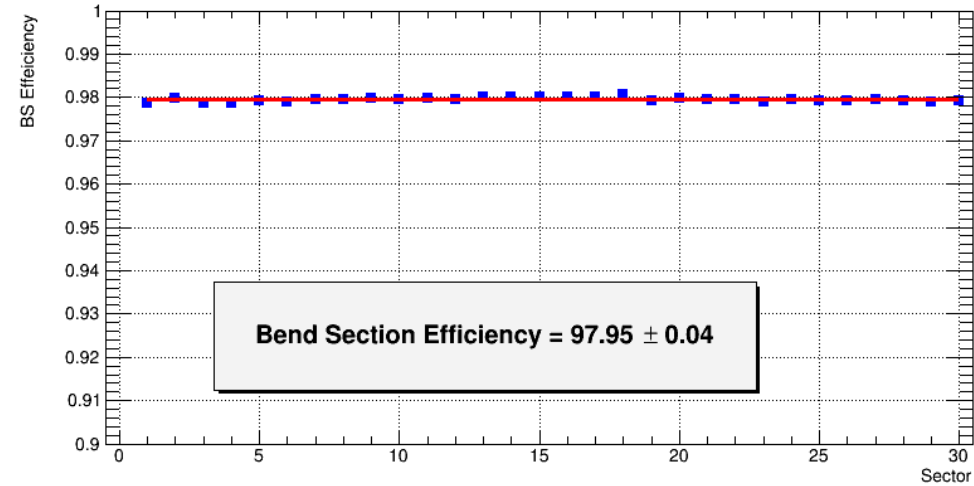
$z \in \text{interval 2}$



$z \in \text{interval 3}$

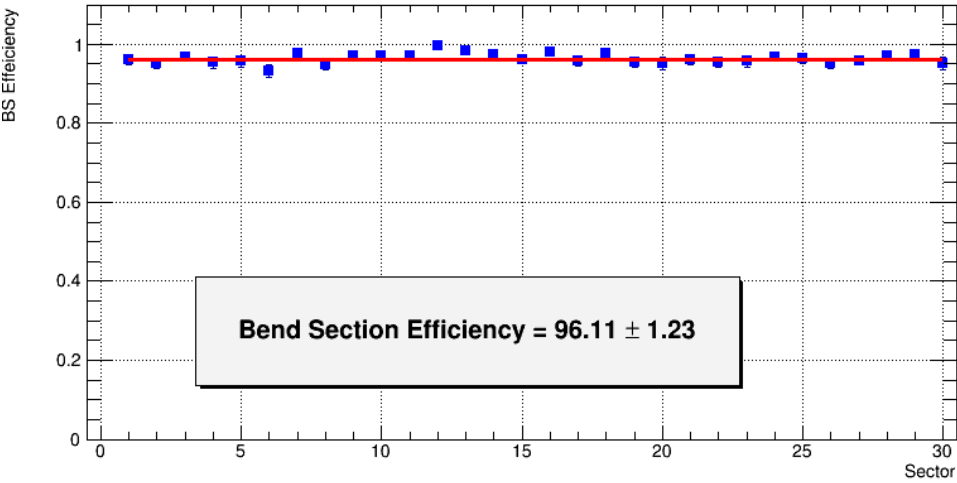


$z \in \text{interval 4}$

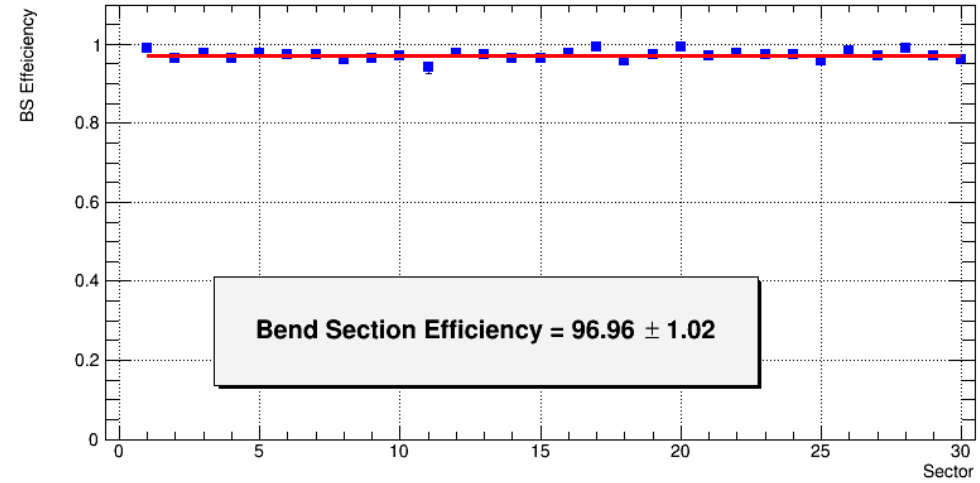


Bend Section (Sim1)

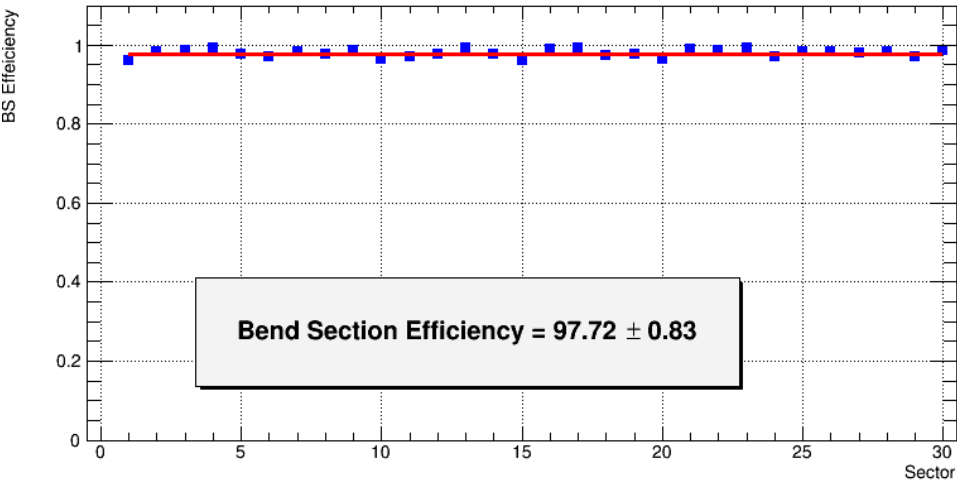
$z \in \text{interval 1}$



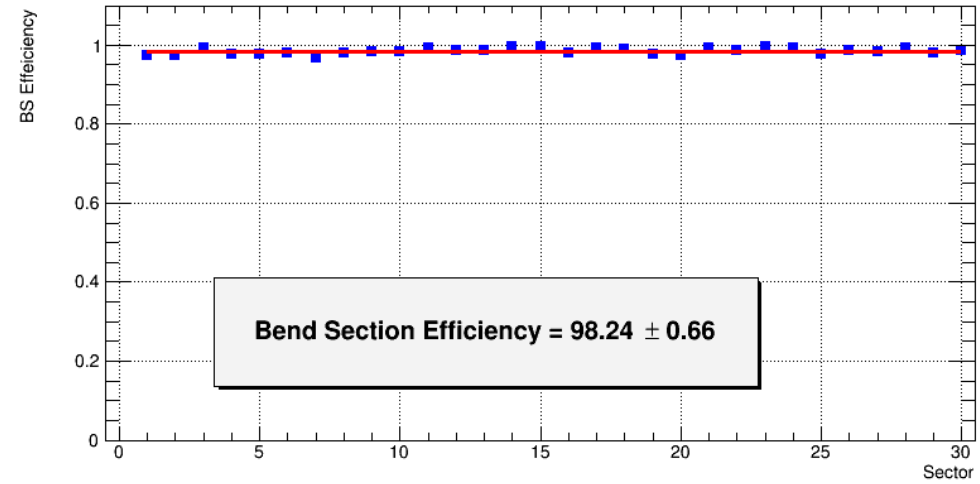
$z \in \text{interval 2}$



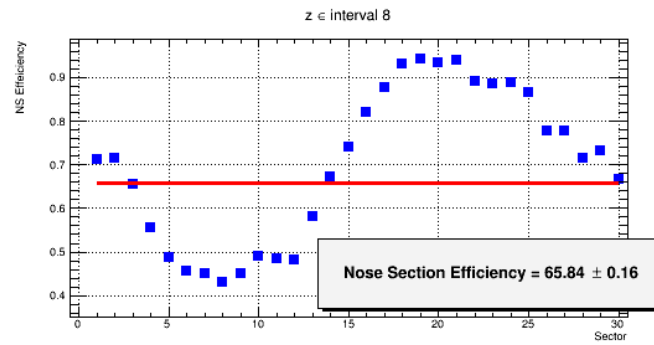
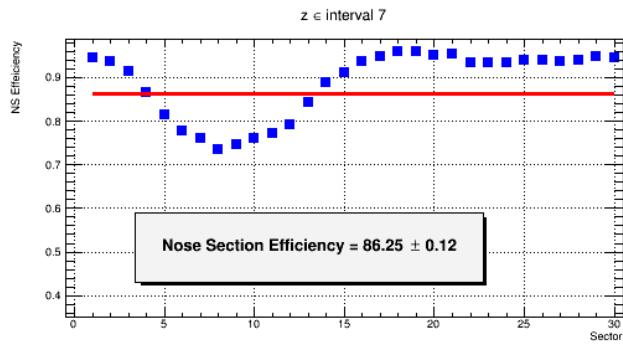
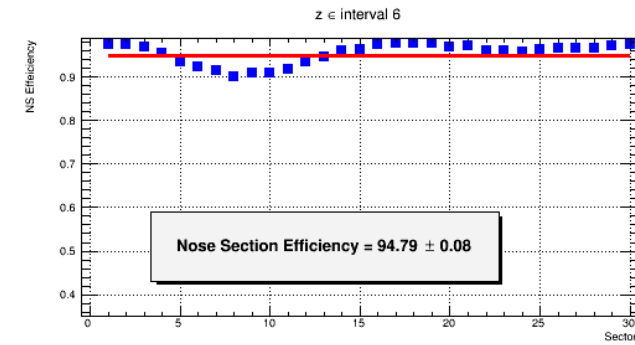
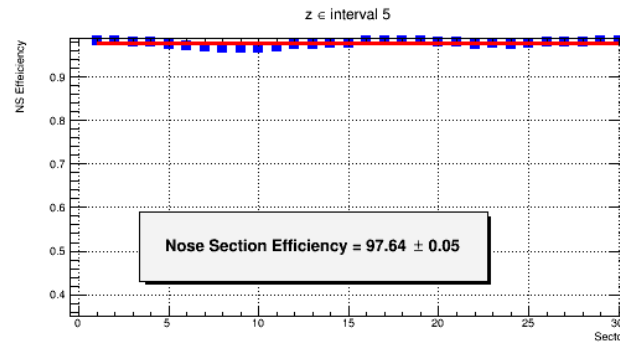
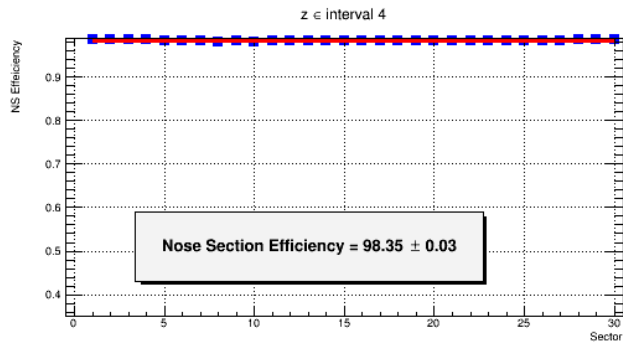
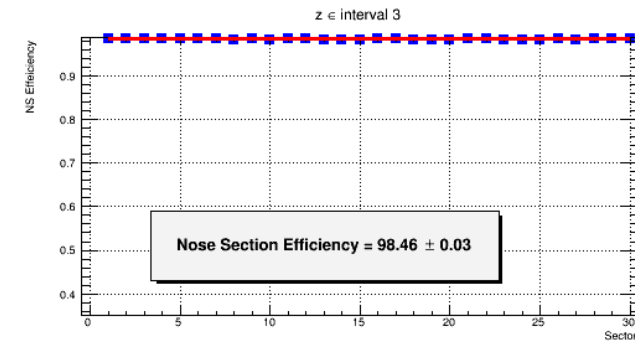
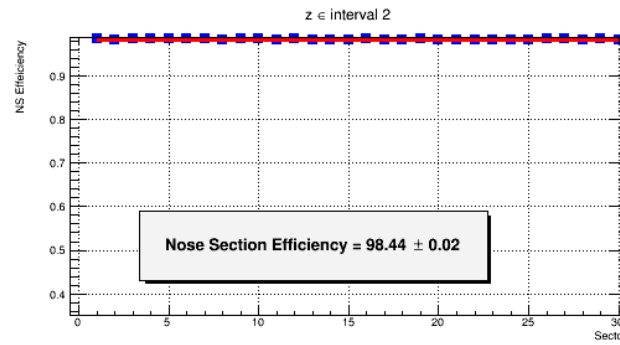
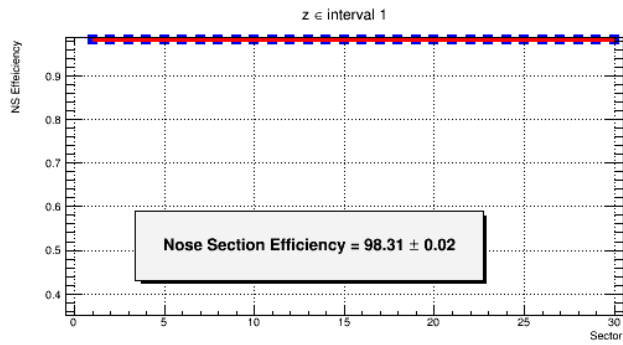
$z \in \text{interval 3}$



$z \in \text{interval 4}$



Nose Section (Data)



Nose Section (Sim1)

