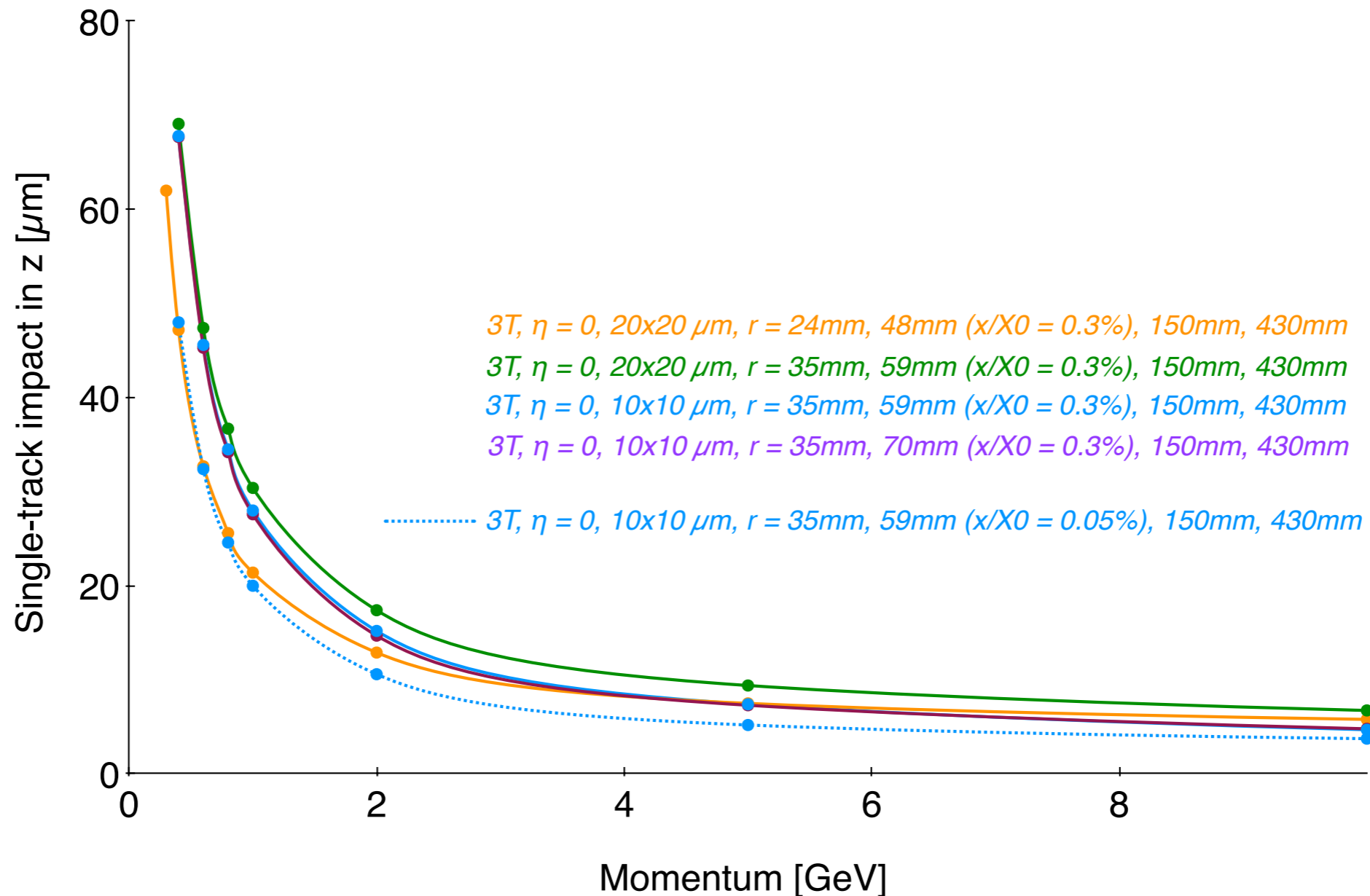


eRD25

The current eRHIC beam-pipe diameter is ~60mm, larger than prior projections

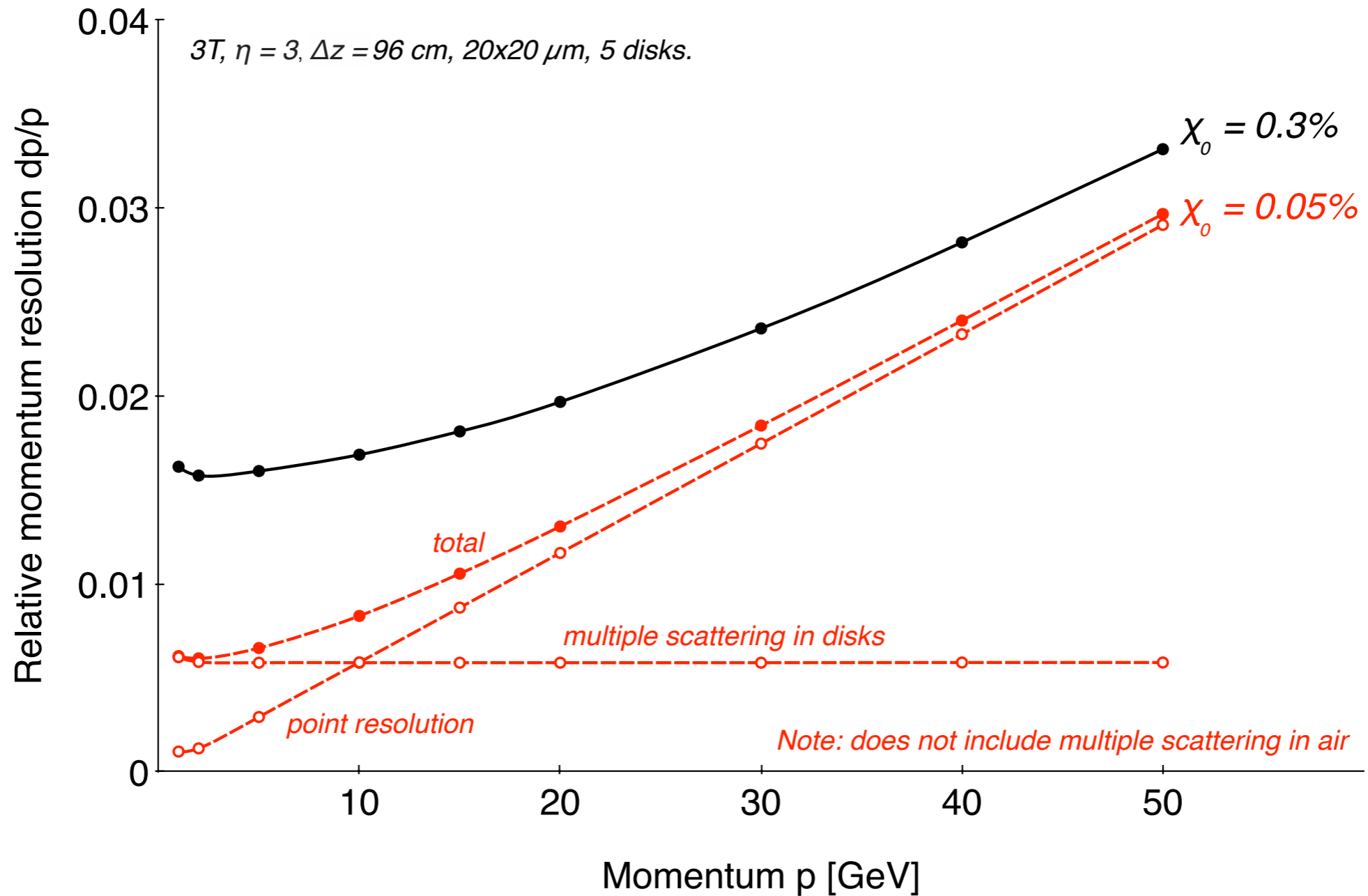


This degrades pointing performance and (at constant length) cuts into acceptance,

It appears possible to overcome the performance degradation with a combination of smaller pixel size and reduced thickness; the displacement between the innermost vertex barrel layers can be kept constant.

eRD25

Thinness is potentially attractive also for the disks in the electron (backward) direction



At equal performance, the device can potentially be of somewhat smaller length
Important caveat, air has a radiation length of ~ 440 m; ~ 1 m will not be negligible.