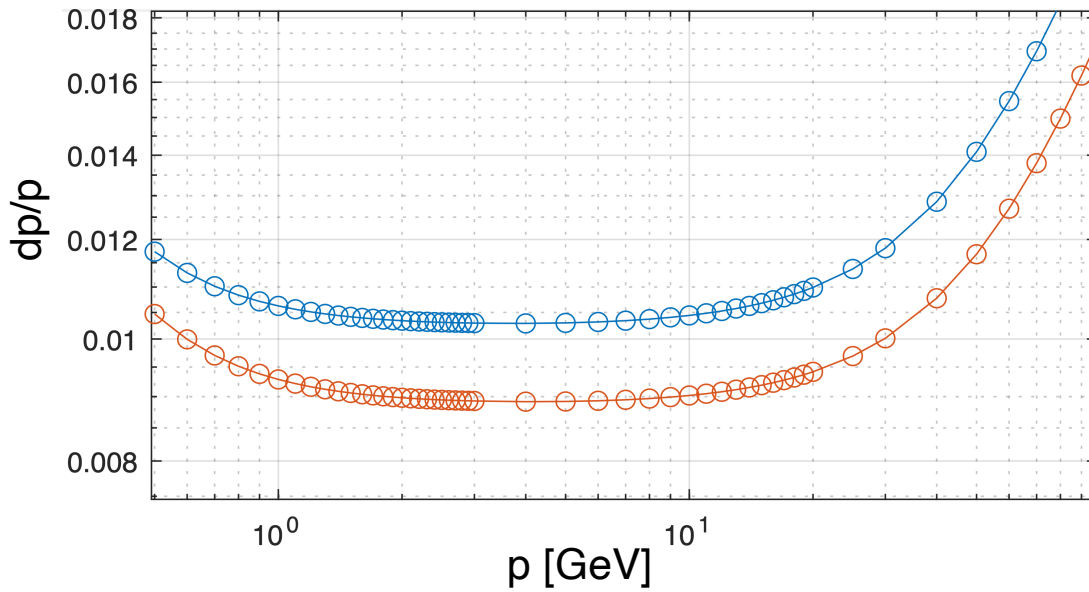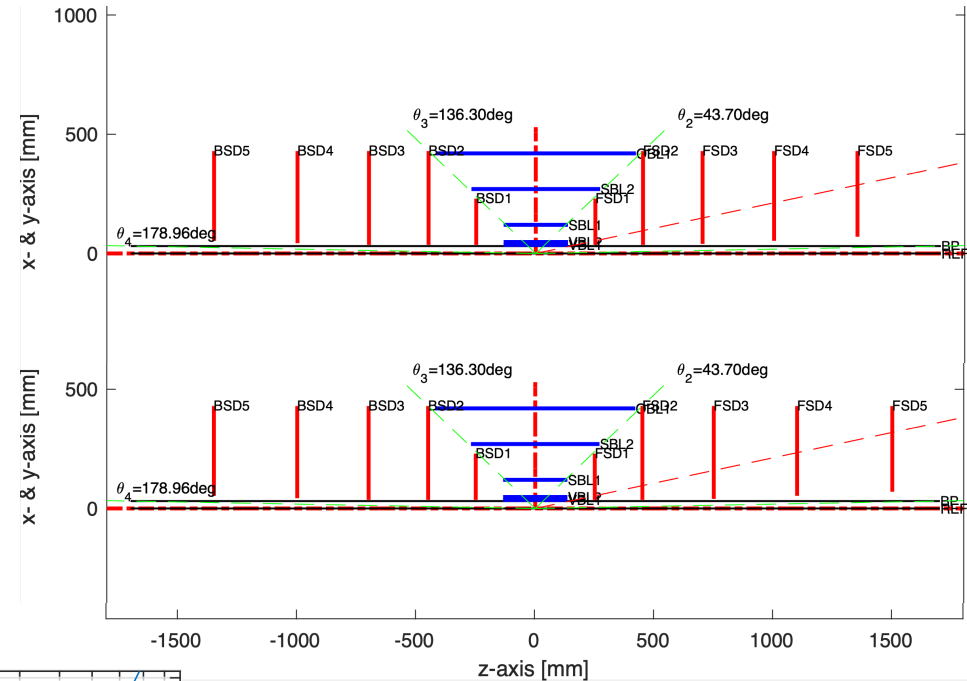# Considerations to recover YR performance over a wider η range

- Extending the lever-arm within the envelope tends to improve performance,

- Illustrated here,
  z_{3-5} = 75, 110, 150 cm versus
  z_{3-5} = 70, 100, 135 cm

- Considering to (also) extend the outer radius to meet the shallow cone.

- Illustration for constant B = 1.7 T for η = 2.25 from fast simulations,

- Lever arm 125 vs 110 cm (vertex layers are outside of acceptance).