Plan of barrel layout optimization

Parameters of DC

- Thickness = 1m (baseline)
- Optimize cell size (1 ~ 2.5cm)
- Gas: He-based, further optimized with PID

Parameters of Si tracker

- N_SIT + N_SET = 4 (baseline)
- Optimize:
 - position of each layer
 - Spatial resolution of r-phi & z (with scanning of theta)

Length of barrel region

- Limit of length of DC: discuss with hardware expert
- Scanning of resolutions vs theta



