Status on SDT simulation

Ryuta



Update

• Change the radius from the baseline configuration

Outer radius of the TPC : R=1800 mm

-- Outer radius of the TPC: R=1500, 1200 mm

-- R of SET is shifted the same amount ($\Delta R_{SET} = 300, 600 \text{ mm}$)

Comment on the radius of the tracker

"One of the consequences of a crystal ECAL is likely to be a smaller tracking volume to reduce crystal cost. For example, what if the radius of the tracking volume is reduced from <u>1.8m to 1.5m or even 1.2m</u>, what will be the impact? How do we design the tracker with this constraint? "

"baseline configuration"

(from previous slide)



Colored lines: active layers

Black lines: passive layers





Comparison of performance

-- "R1500" configuration --



Comparison of performance

-- "R1200" configuration --



Ref: from CDR

