

SVT: status and plans

DGWG studies

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Present status

- Perform studies to understand pro and cons of enlarging SVT outer radius or reducing DCH inner radius, to coordinate together with DCH group:
 - track parameter resolution; (NN)
 - Ks reconstruction; (related to TD measurements) (NN, Gabriele)
 - soft pion reconstruction; (NN)

No gain in enlarging SVT radius better reducing DCH inner radius

- Implemented improved resolution model for Layer0. (John)
- Model the passive material at the edge of the active volume for the SVT baseline. (Marco)

To Do List

- Impact of L_0 efficiency (and removal) on TD measurements.
- Internal geometry optimization:
 - equidistant layer configuration vs present configuration: evaluate tracking performances
 - L_2 removal: small improvement on tracking performances (ΔE , Δm) but lost in hit redundancy.

Important point: internal SVT configuration has to provide redundant measurements and safety margins