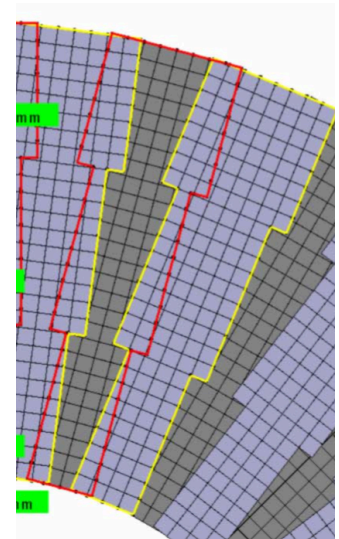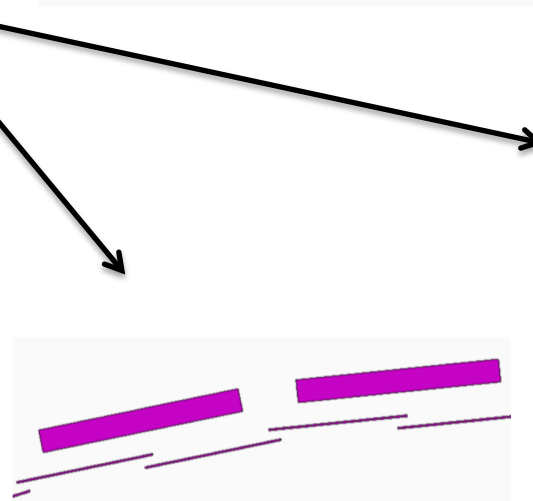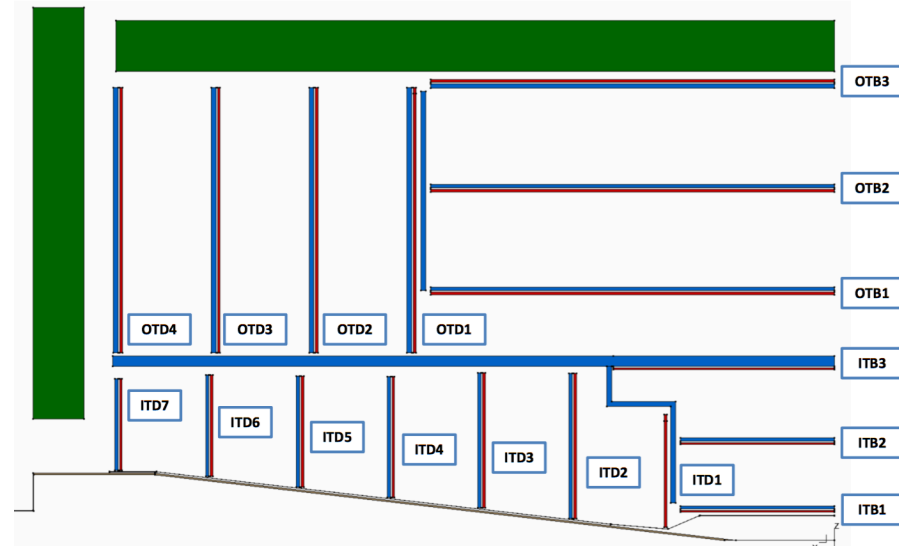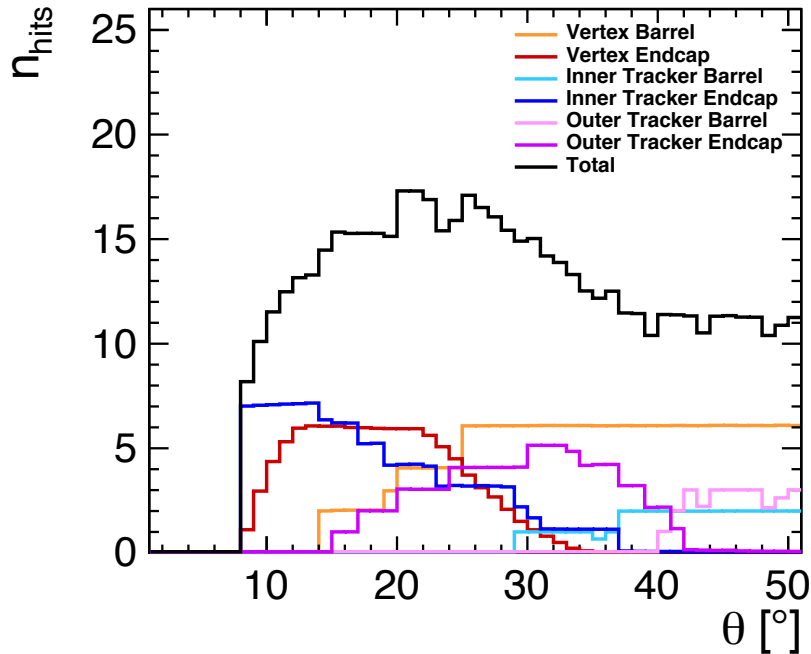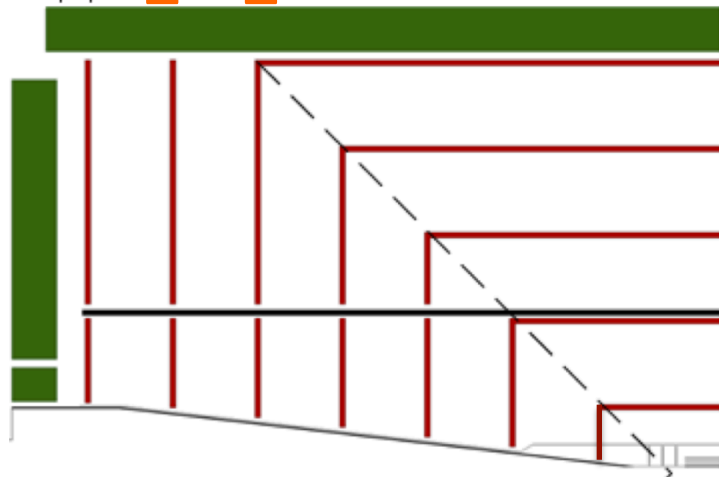# Validation of CLIC_o3_v5

Rosa Simoniello

CLIC_o3_v5

New CLIC_o2_v5 in simulation ☺

☑ Tracker from engineer design implemented *(M. Petric from numbers by S. Sroka)*

- Extra barrel layer
- Barrel with equal length
- New support structures (not described in this talk)

☐ Some material budget numbers need to be updated → interaction with engineers

☑ Basic validation of model (+ upgraded software) done

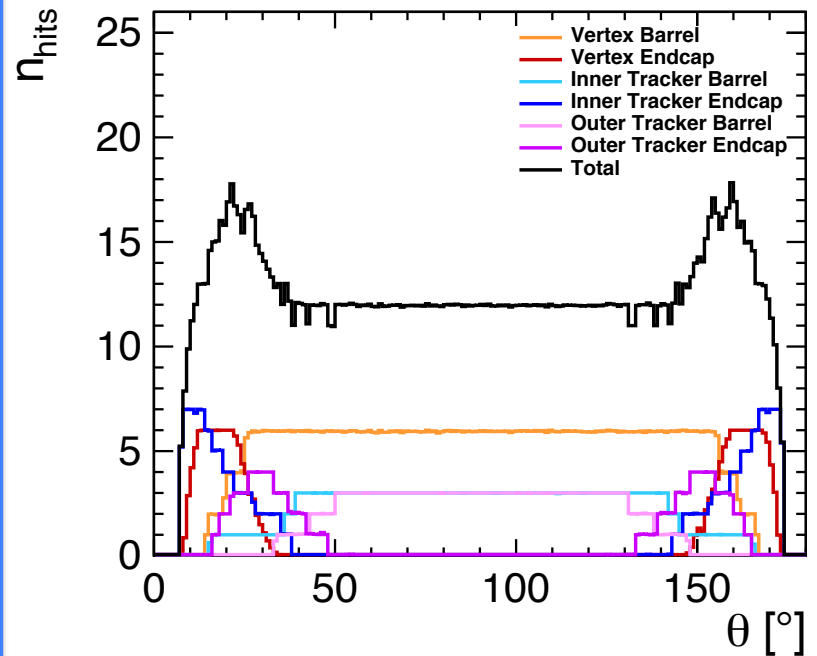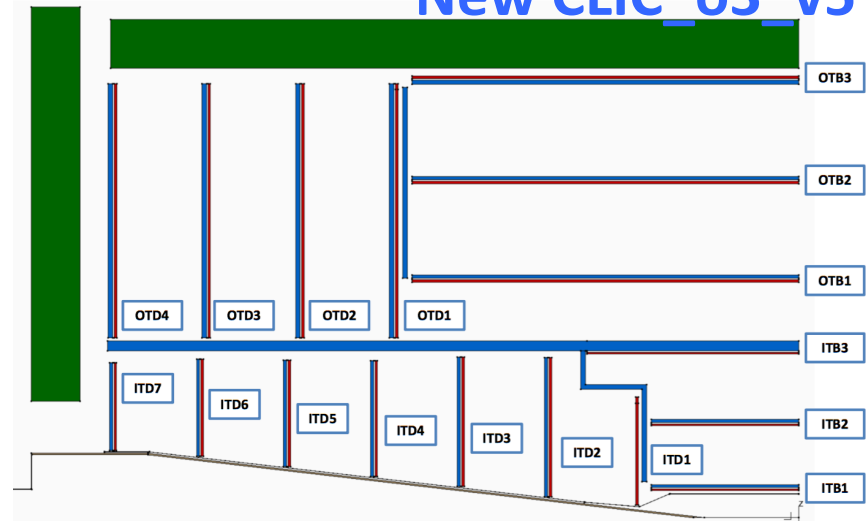- Problem with missing hits in the endcap solved
- Results in the next slides
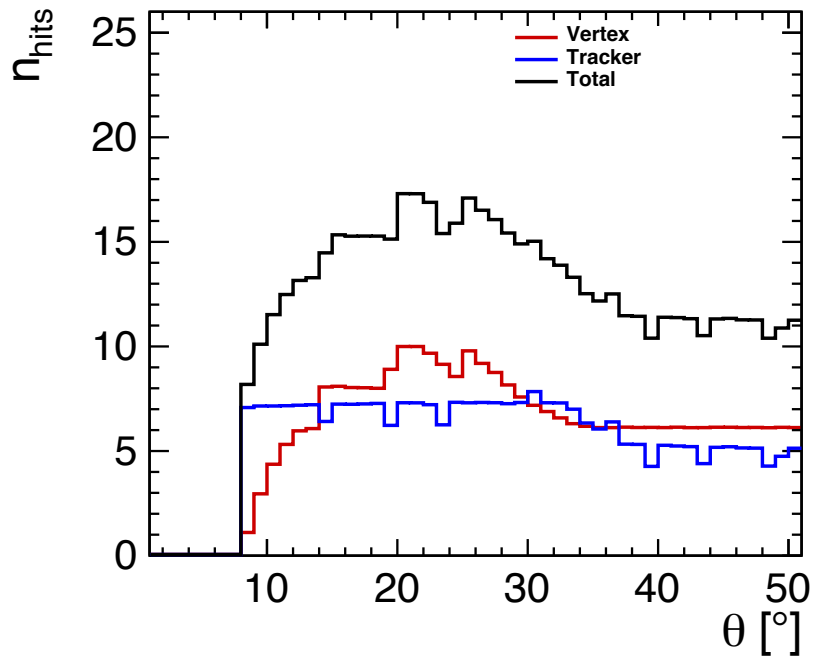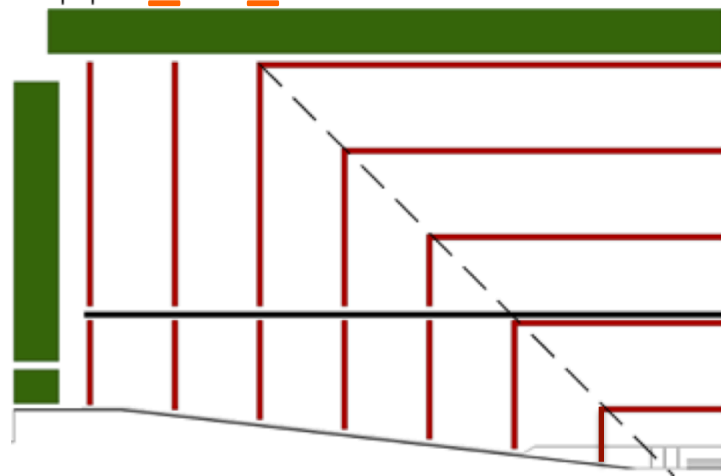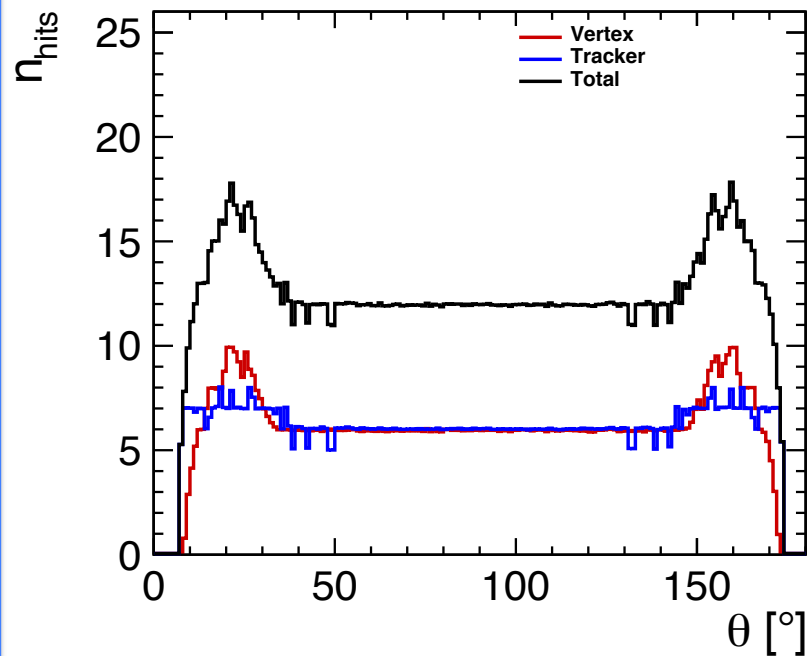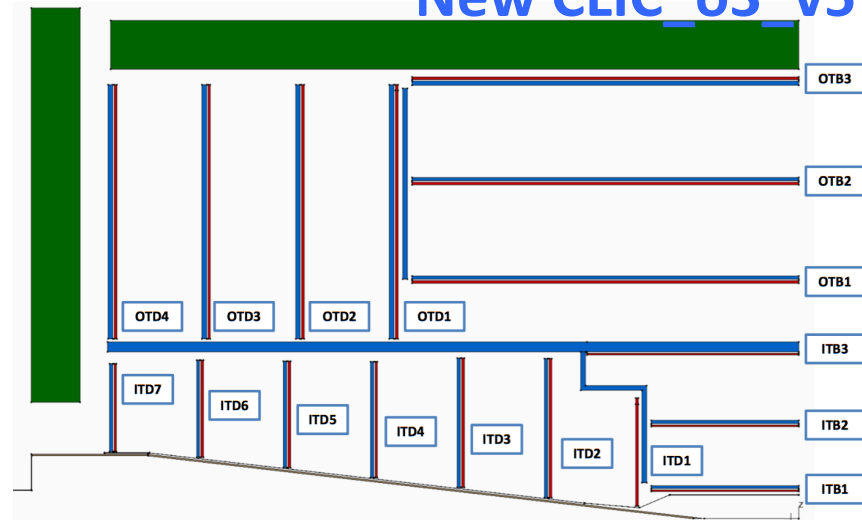
Number of hits
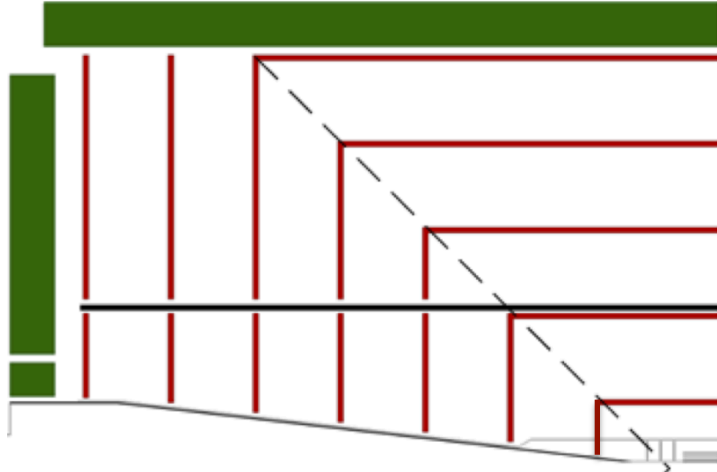

Old CLIC_o2_v3

New CLIC_o3_v5

Number of hits

Old CLIC_o2_v3

New CLIC_o3_v5

Material budget

OTB3

OTB2

OTB1

OTD4 OTD3 OTD2 OTD1

ITB3

ITD7 ITD6 ITD5 ITD4 ITD3 ITD2 ITD1 ITB2

ITB1

Old plot legend:
- Vertex Barrel
- Vertex Endcap
- Inner Tracker Barrel
- Inner Tracker Endcap
- Outer Tracker Barrel
- Outer Tracker Endcap

Material Budget [%X_0]

Wrong mb in vertex endcap corrected in later versions

θ [°]

New plot legend:
- Vertex Barrel
- Vertex Endcap
- Inner Tracker Barrel
- Inner Tracker Endcap
- Outer Tracker Barrel
- Outer Tracker Endcap

Material Budget [%X_0]

Numbers to be updates but full machinery is in place

θ [°]

Conclusions

- Basic validation of the new CLIC_o3_v05 model is OK
- More tests and final plots to be produced when all mb numbers are updated