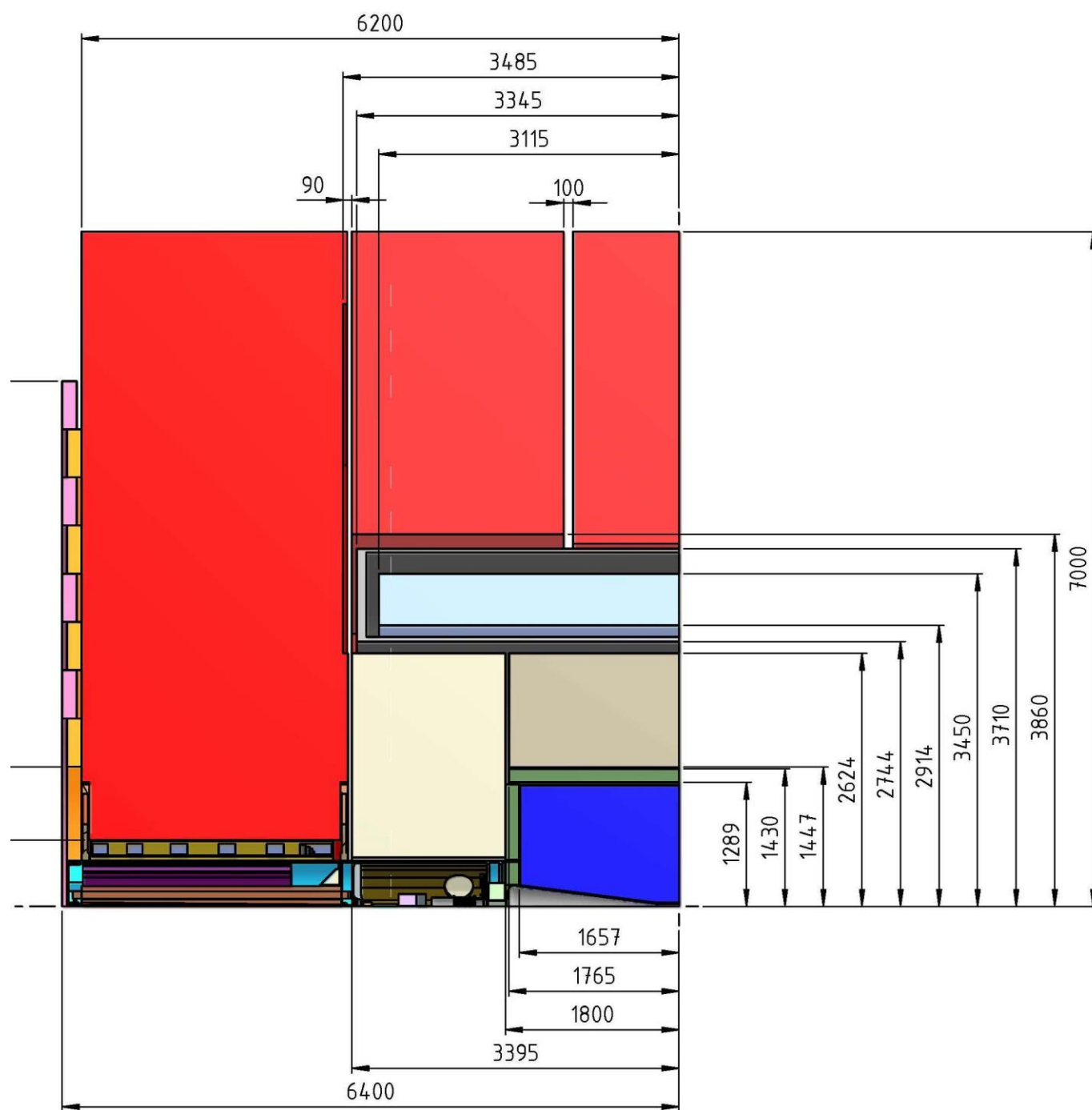


“WG5” 2 June 2014 - Introduction

(Konrad Elsener)

- discussing different options for this “post-CDR” round of detector studies
 - agreed that TPC for tracking is not an option for CLIC
 - start with a “**reset**” on a number of previous working hypotheses:
 - two detectors in push-pull
 - quadrupoles (QD0) are inside the detector
 - stray field in the cavern has to be very low
 - radiation in the cavern has to be very low
- This allows to look at CLIC_SiD, and e.g. reduce iron in the endcap yokes



Main topic of today's meeting:

results on reduced iron in the endcap yokes
(in view of a talk at the CLICdp workshop next week)

If time allows:

brief update on the on-going CLIC detector optimisation studies



Status of CLIC detector optimisation studies:

tracking and calorimetry -> $R(\text{ECAL}_{\text{inner}}) = 1.5 \text{ m}$ CLIC_SiD: 1.3 m
 $L(\text{tracker}_{\text{half}}) = > 2.3 \text{ m}$ CLIC_SiD: 1.65 m

other considerations: $B_{\text{solenoid}} = 4.5 \text{ T}$
(ECAL and HCAL thickness not changed for the time being)

actively under study: ECAL granularity and technology (scintillator)

need to re-consider e.g. steel in HCAL barrel, ...