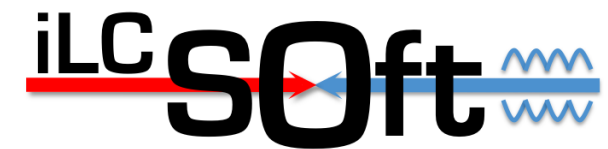


# TPC Status in Mokka

Steve Aplin

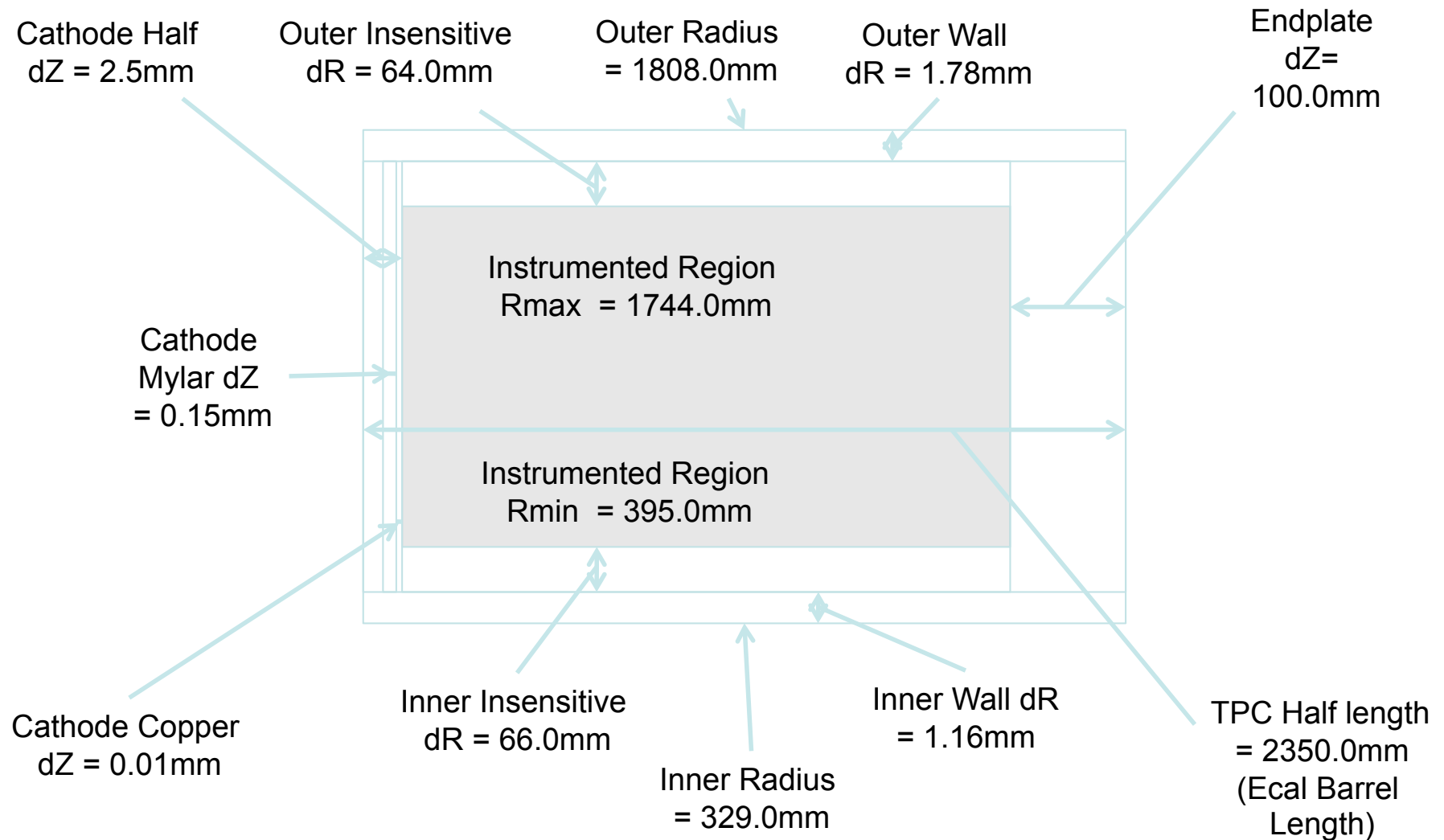
ILD Software and Integration Workshop 2010 – DESY  
7<sup>th</sup> July 2010



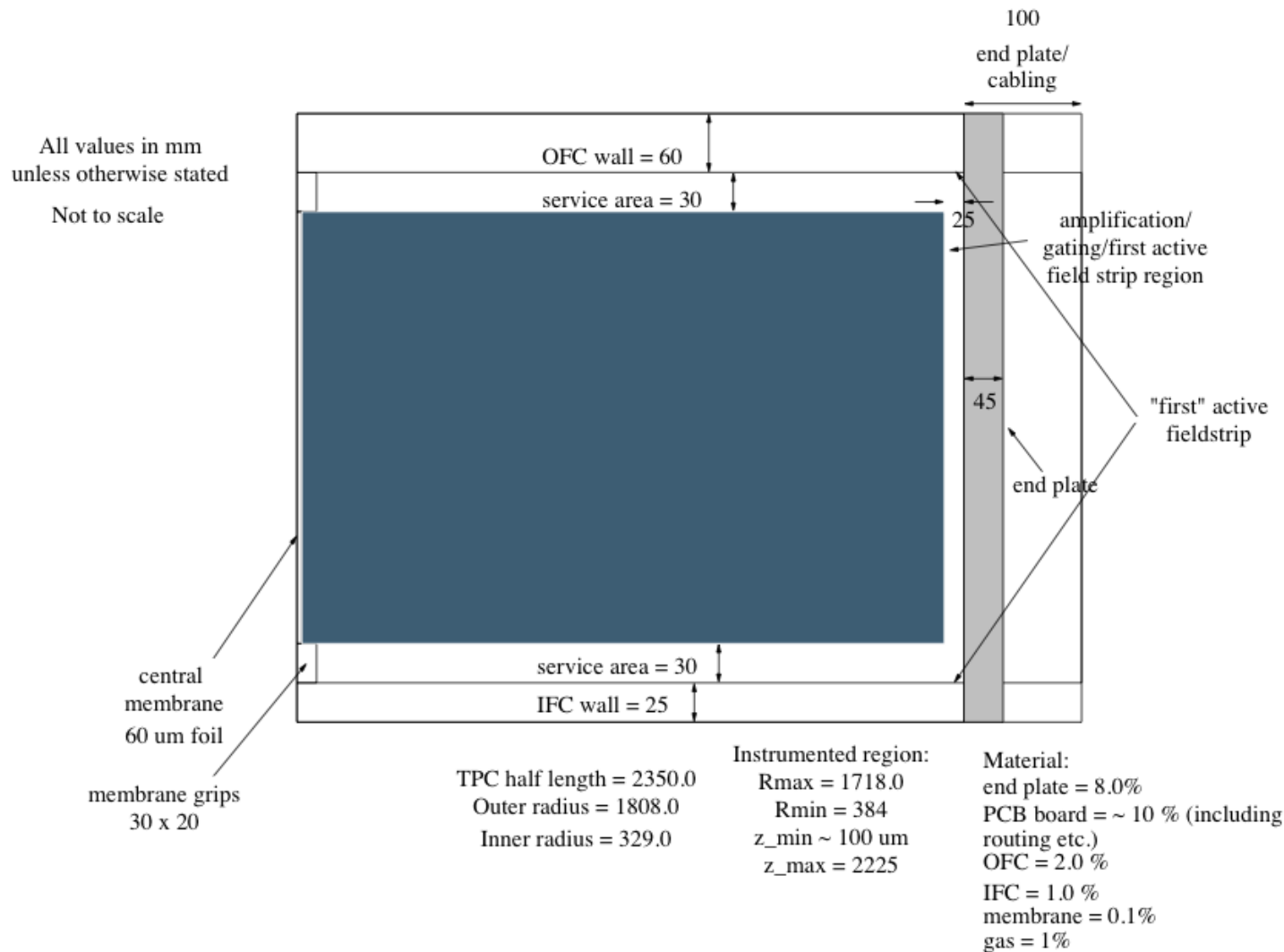
# Overview

- TPC driver well established in Mokka
- Continuous and ongoing dialog with LC-TPC group
- New TPC models in Mokka for studying the impact of the amount of material in the TPC endplate on PFA
  - provides endplates of: 15% 30% 45% and 60% of a radiation length.
  - can be modified to allow the dependence on the gap between the TPC endcap and the ECAL to be studied
  - studies ongoing
- Digitisation well established and evolving

# Current Mokka Model



# Working Model from LC-TPC



# Summary

- Working Model is more representative
  - more realistic field cage and cathode
- Endplate mechanical structure  $\sim 8\% X_0$ 
  - averaged over the complete endplate as the design is not yet sufficiently mature to put in a non homogenous material distribution
- Readout  $\sim 10\% X_0$
- Low Voltage cables  $\sim 10\% X_0$ 
  - with or without dc-dc converters?
- Mokka TPC still using anti-gravity drive and WI-FI