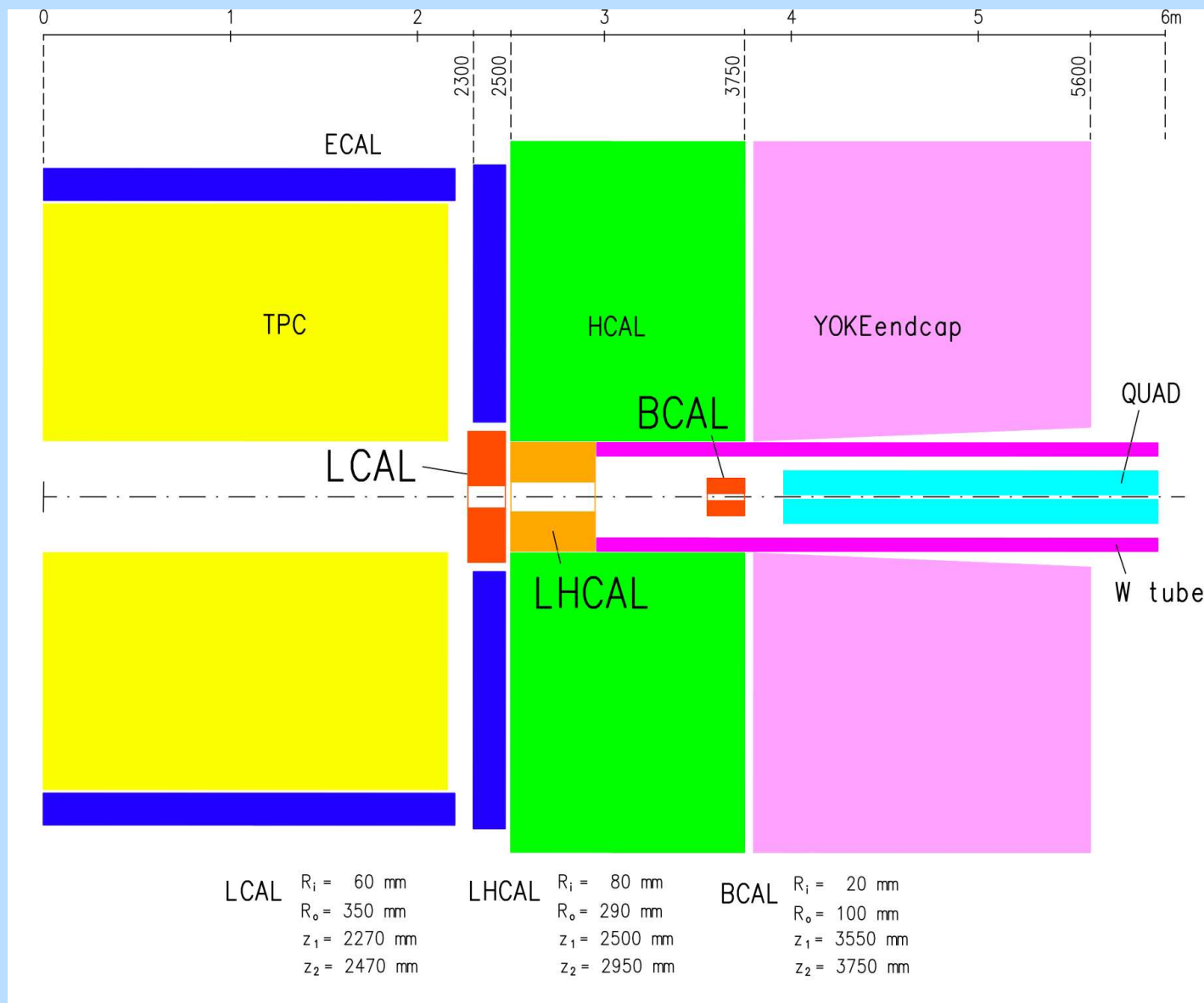


# **Mokka Detector Geometries for the Forward Region**

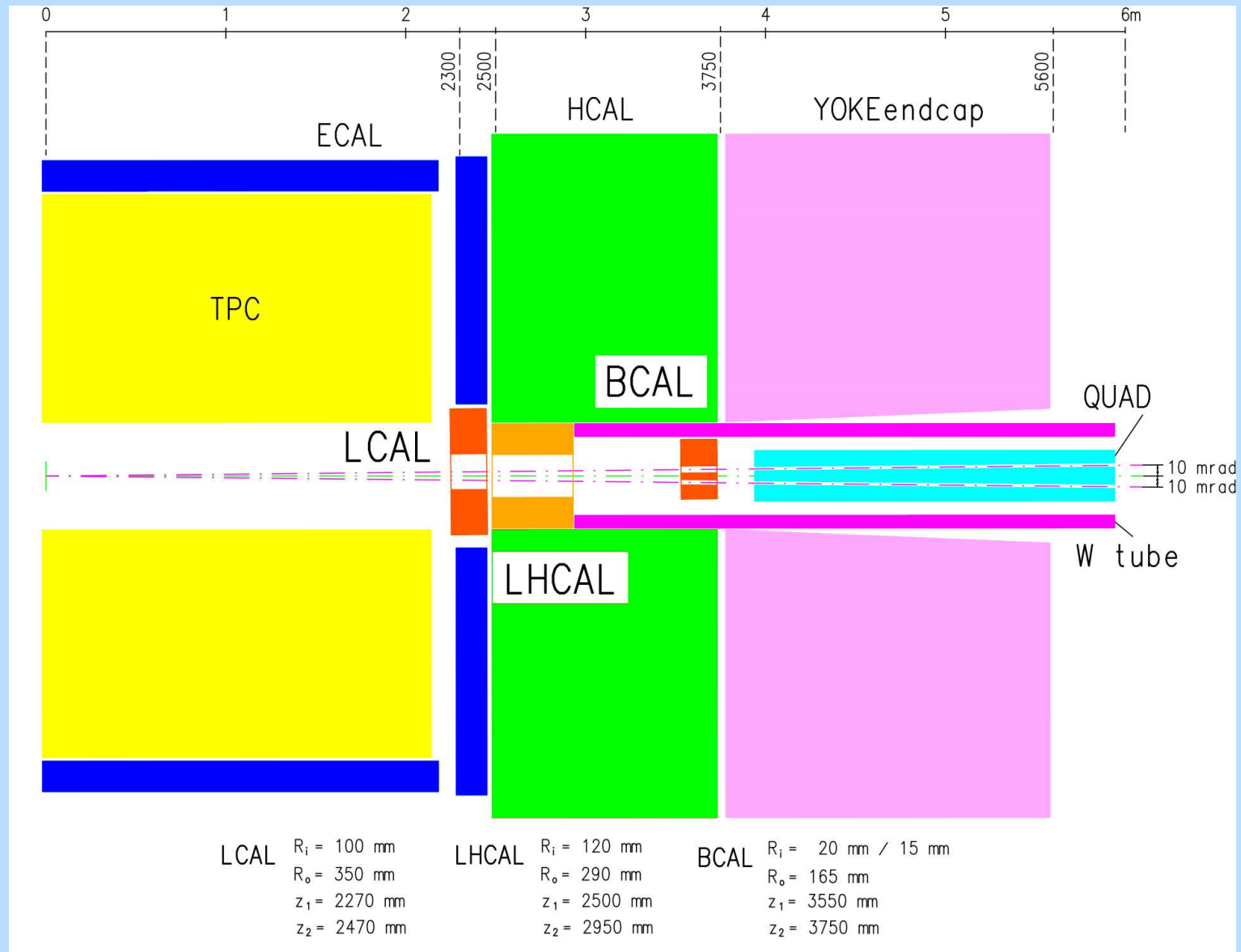
*LumiCal, BeamCal, and Friends*

Adrian Vogel  
DESY FLC

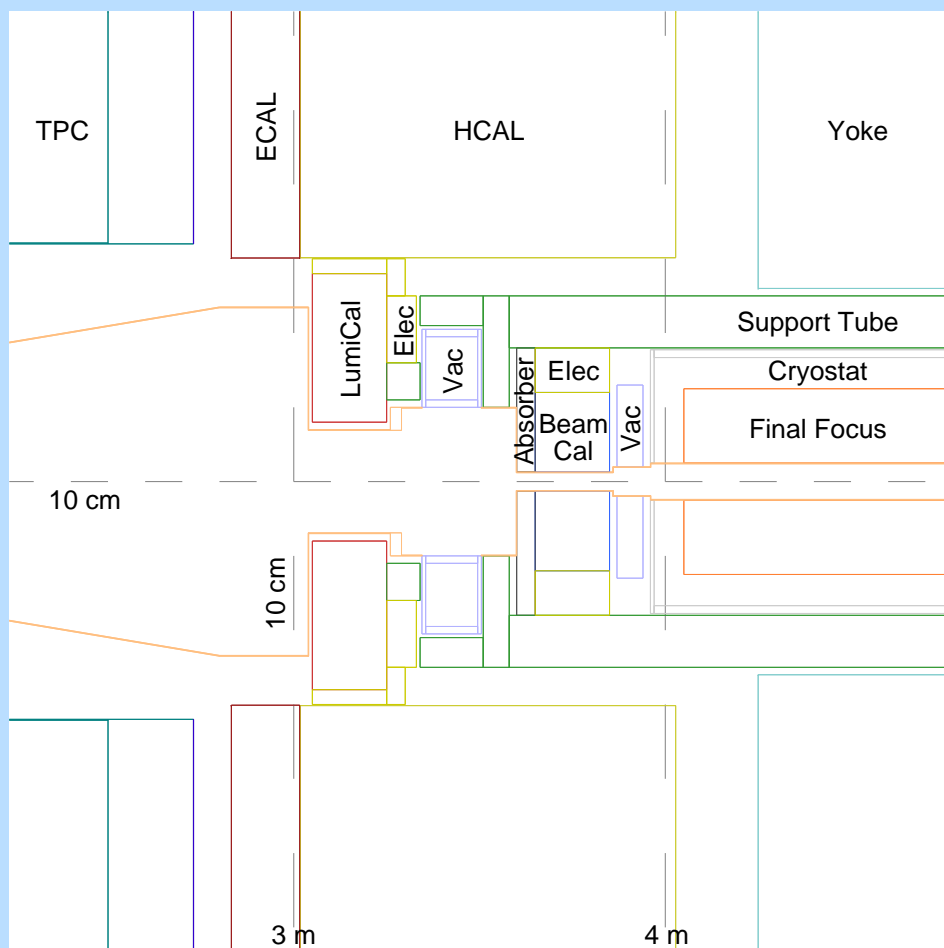
# Forward Region for 2 mrad (W. Lohmann)



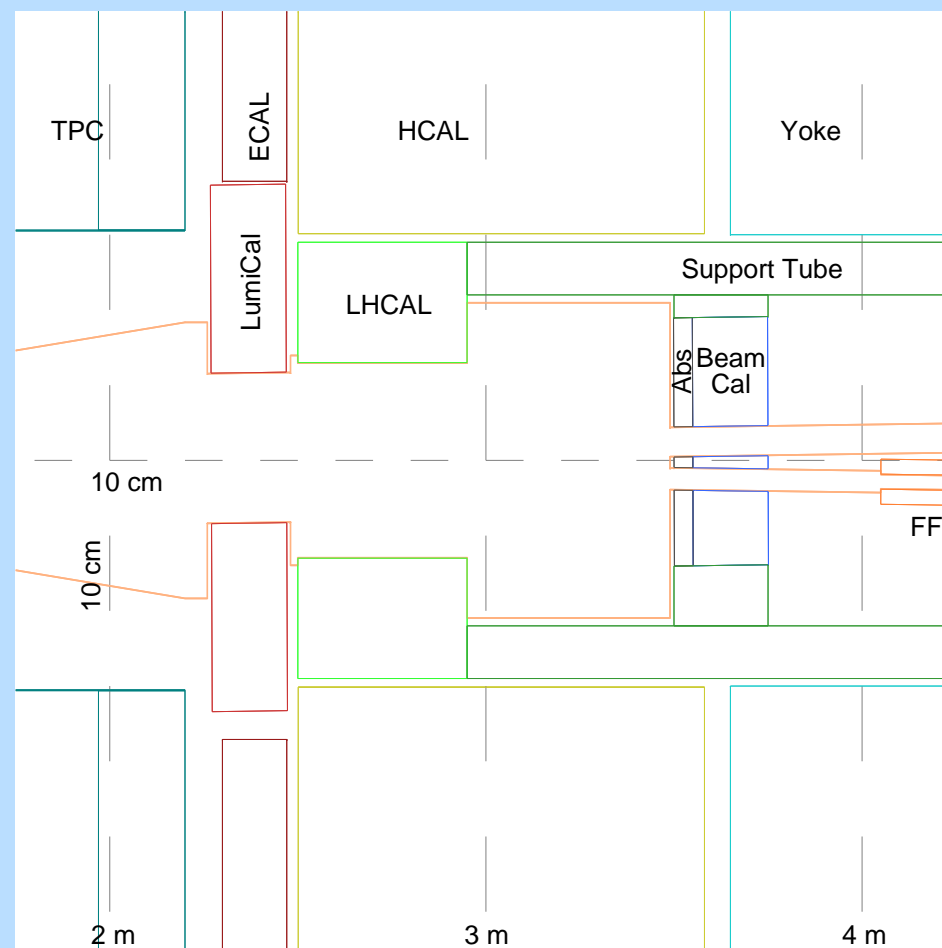
# Forward Region for 20 mrad (W. Lohmann)



# Forward Regions in Mokka (AV)



D13(X)Stahl (official)  
Beginning of 2005



LDC01\_02ScXnn (private)  
Middle of 2006

# LDC01\_02ScXnn

- derived from LDC01\_01Sc (shortened LDC version 2)
- modified tube, mask, field, and some parameters
- exists in variants for 2, 14, and 20 mrad crossing angle
- contains LumiCal, LHCAL, BeamCal (all insensitive)
- pieces are aligned on the outgoing beam axis
- includes BDS magnets (quadupoles have fields)
- model extends up to  $z = 12.5$  m
- thoroughly checked for geometry overlaps
- single pieces could easily be removed / exchanged