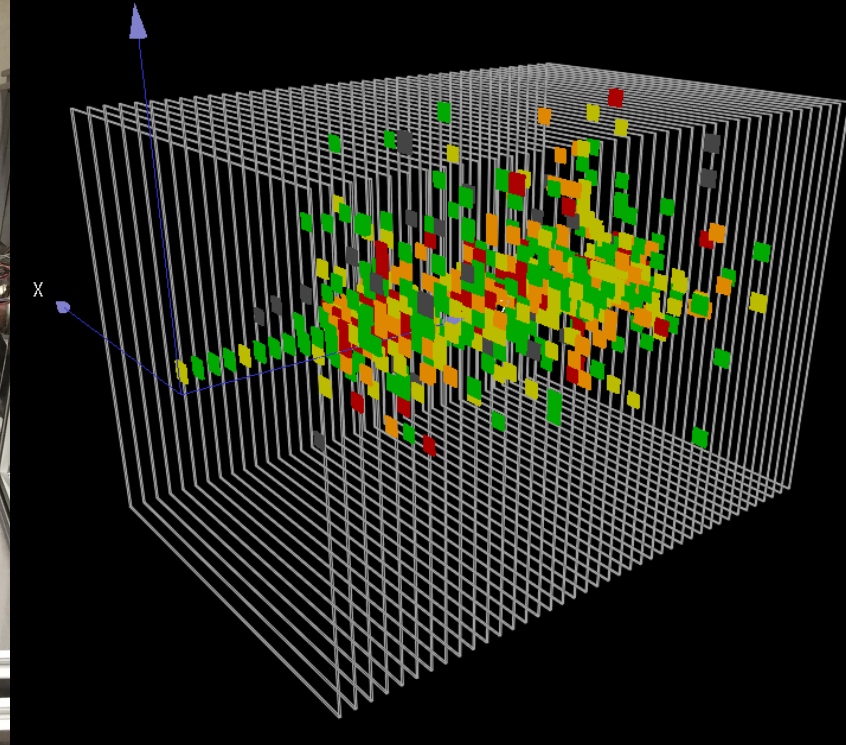
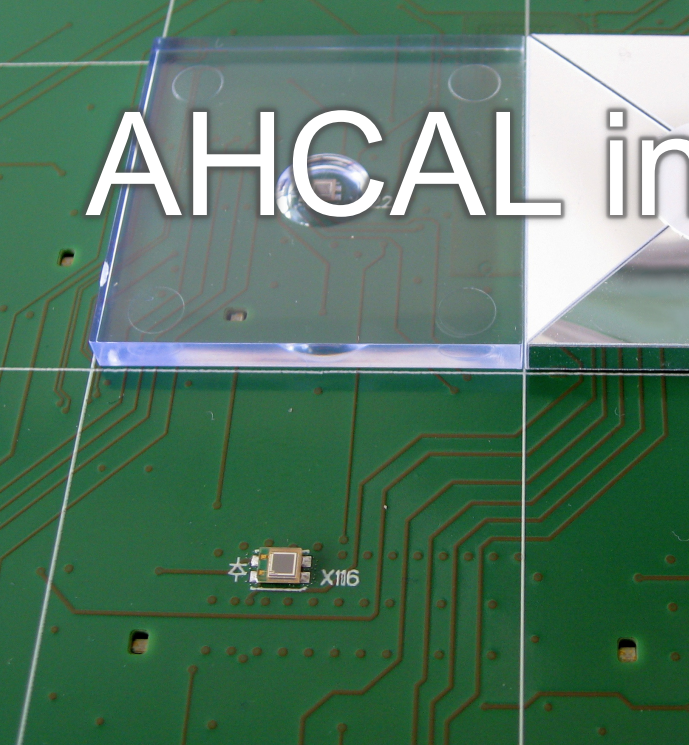


AHCAL intro



Katja Krüger (DESY)

CALICE Collaboration meeting, IJClab/LLR

13 October 2022

HELMHOLTZ RESEARCH FOR GRAND CHALLENGES

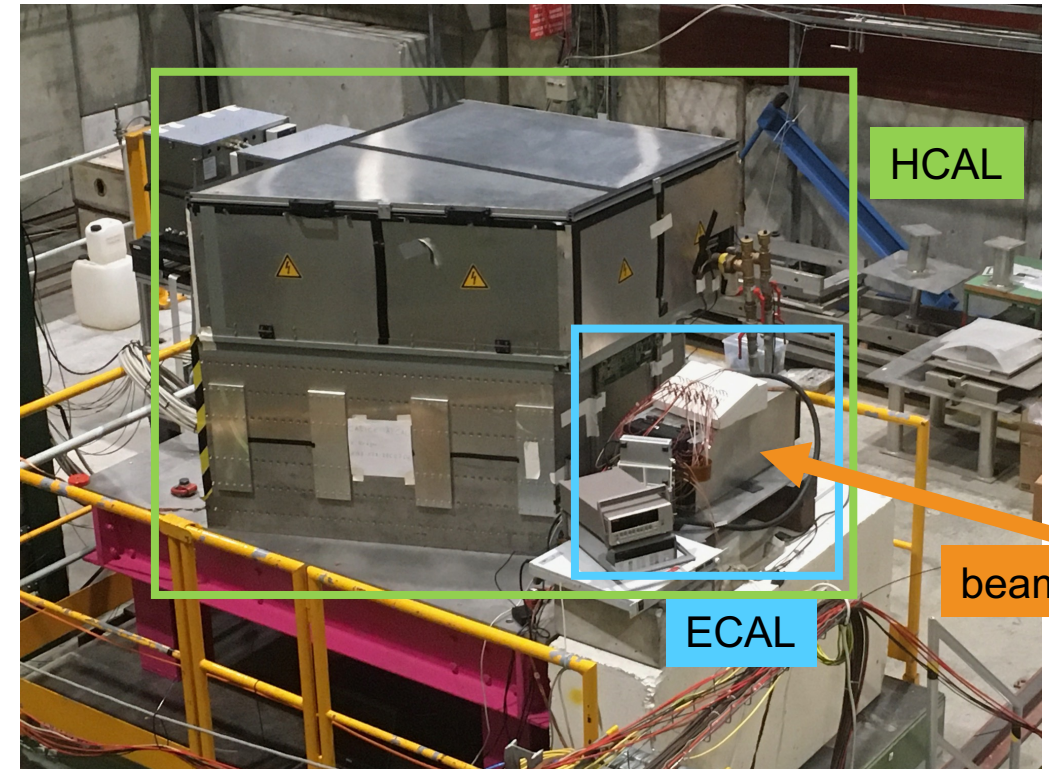


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Overview

Status

- Large ILC prototype
 - Construction & Commissioning: paper submitted to JINST
 - Analysis of 2018 testbeam data: description of shower shapes with fast simulation: see Julian's talk tomorrow
 - 2 weeks testbeam at CERN SPS 8-22 June 2022 together with SiW ECAL
 - Milestone in our program reached!
 - Synchronisation: see Jiri's talk yesterday
 - Data taken: see Yuichi's talk yesterday
 - First look into AHCAL time data: see Lorenz' talk
- Other developments/studies
 - Megatiles: see Anna's & Antoine's talk
 - Studies of position reconstruction with scintillator bars: see Malte's talk
- Large CEPC prototype
 - 2 weeks testbeam for SciECAL + AHCAL at CERN SPS starting next week: see Haijun's talk



Overview

Plans

- Further testbeam program
 - SiW ECAL + AHCAL with better ECAL
 - Tungsten stack
 - Include TCMT?
- Hardware developments
 - Megatiles
 - KLauS ASIC -> continuous running
 - Miniature interfaces (similar to ECAL SL boards)
 - Timing?
- More details in the discussion session later