

CMS High Granularity Calorimeter PostDoc Position at KIT



By A.Savin - own work, FAL, <https://commons.wikimedia.org/w/index.php?curid=128509439>

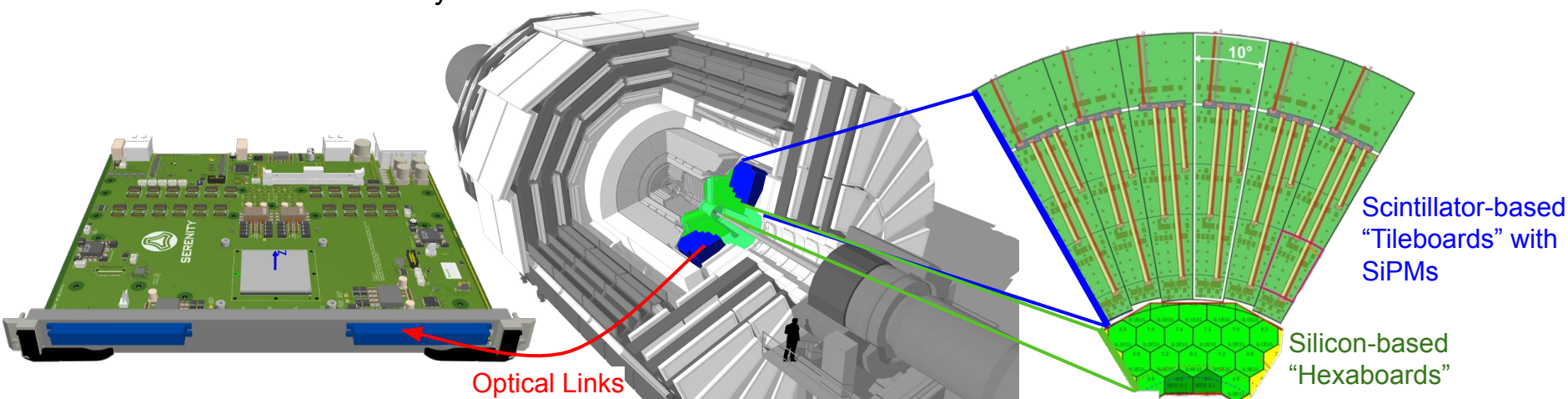
Research topic: HGCAL @ IPE

The CMS High-Granularity Calorimeter

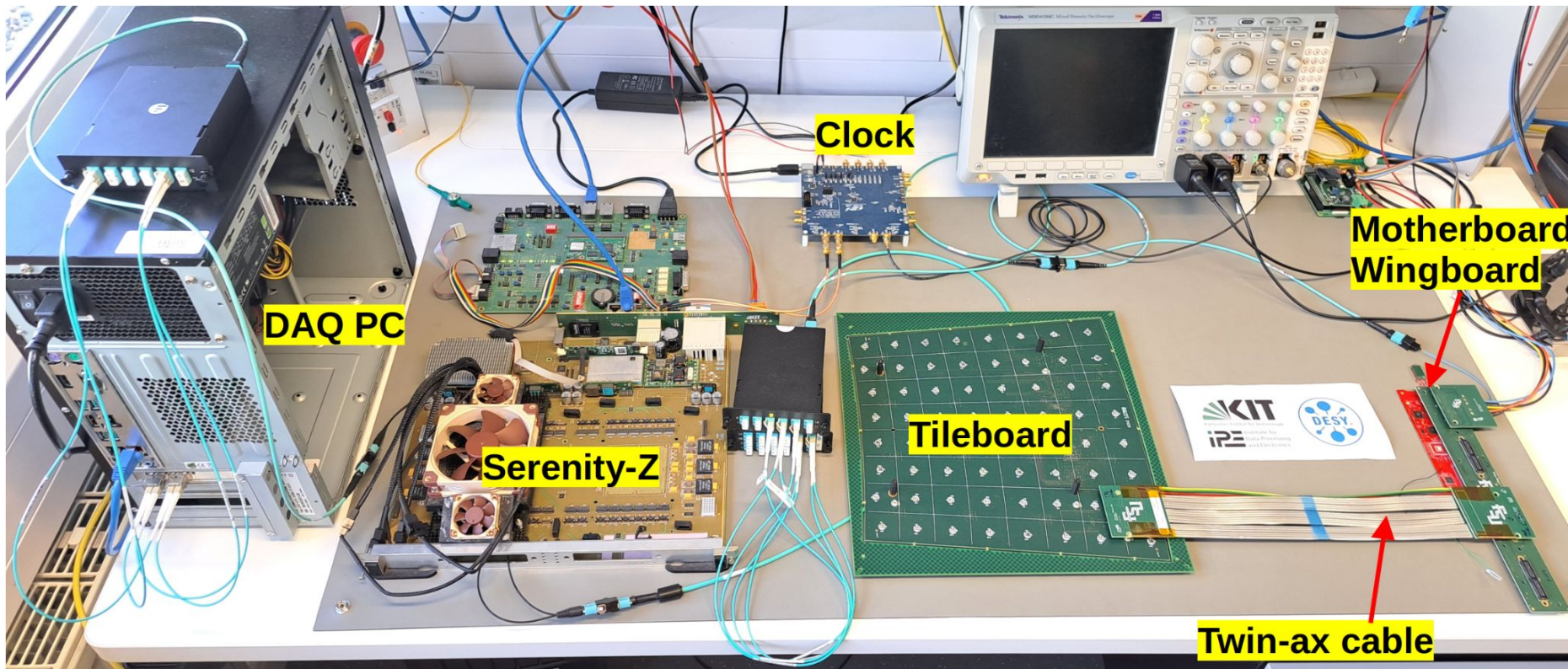
- Phase 2 upgrade of the calorimeter endcaps
- 5D imaging calorimeter designed for high pile-up
- Two sensor technologies: SiPM-on-Tile & silicon
- Read-out with Serenity-S FPGA cards

Contributions from IPE/KIT

- Vertical integration of the SiPM-on-tile readout chain, system validation and beam tests
- Serenity-S boards developed at KIT (as part of the Serenity consortium)

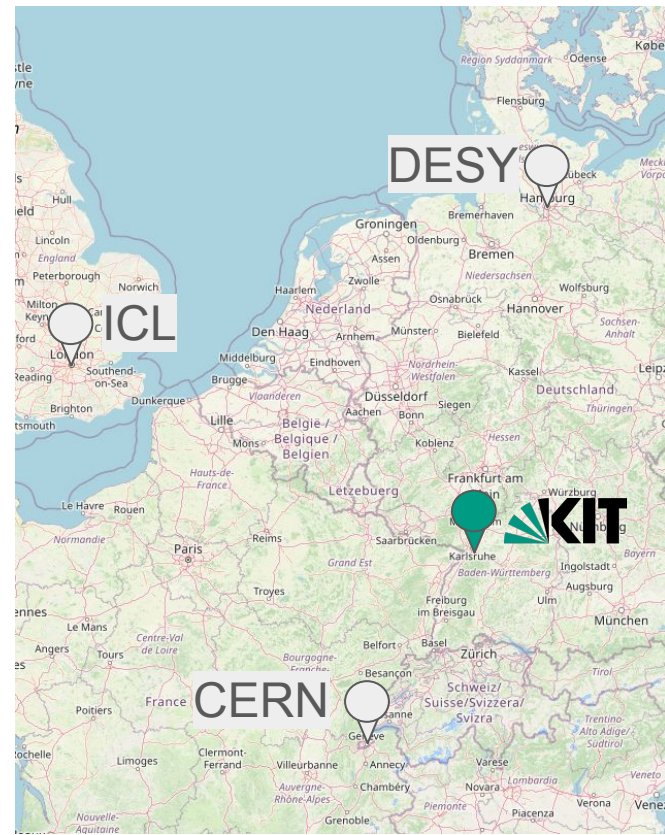


Bringing HGCAL front end and back end together



The HGICAL Group at IPE

- Bringing the front end (tileboards from DESY) and the back end (Serenity readout - CERN) together
- Close collaboration with CERN, DESY, Imperial College London
- Mixed team of physicists and engineers
- Currently 2 (+1) PhD students and 1 Master Student, growing
- Also active in generic R&D for highly granular calorimeters within DRD6. Will be advertising a postdoc position in that area soon.



PostDoc at KIT - Fact Sheet

- Location: **Karlsruhe, Germany**
- Regular travels to CERN and DESY
- Contract duration: 3 years
- Starting date: as soon as possible

Your tasks:

- Contribute to development and testing of the HGICAL readout chain and to tileboard QC
- Coordinate student work
- Represent the group at other institutes

Your qualifications:

- PhD in physics, electrical engineering or related field

Interested?

Read the full job posting at
INSPIRE-HEP



<https://inspirehep.net/jobs/2780234>

info@ipe.kit.edu