

KIT contributions to computing matters

LUXE computing kick-off on Aug 31st



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Planned contributions

Research interests and possible support

- Research interests
 - BSM physics at LUXE-NPOD
 - (Real-time) reconstruction algorithms (calorimeter, tracking, vertexing)
 - LUXE-NPOD calorimeter (GEANT4 studies, readout, DAQ, ...)
- Possible support
 - Mechanical workshops
 - Technical information and electrical engineering
 - Large theory department
 - Computing

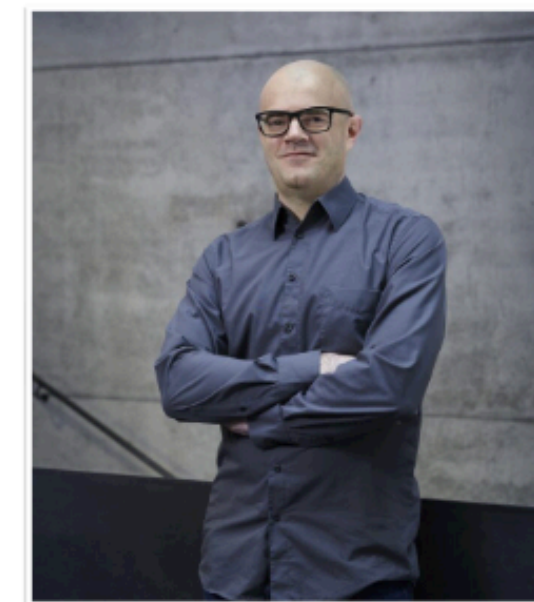
Planned contributions

People

- Torben & Markus
- 1 Post Doc
- 50% PhD
- BSc and MSc students
- + Computing group

■ Torben FERBER

- Professor at KIT since 2021 (previously DESY)
- Belle II
 - B-Physics and BSM (ALPs, LLPs, ...)
 - Software and computing
 - Calorimeter reconstruction, performance, and operation
 - L1 Trigger (ML on FPGAs)
- Member of the FPC@PBC



■ Markus KLUTE

- Professor at KIT since 2021 (previously MIT)
- CMS
 - Higgs Physics in and beyond the SM
 - Software and computing
 - Calorimeter reconstruction, performance, and operations
- FCC-ee:
 - Software and computing
 - Physics case



Possible Computing Contributions

Up for discussion

- Tape storage (cold copy)
- Disk storage
- Data management
- Processing infrastructure
- Analysis facility (hardware and software stack)
- Software contributions (framework, simulation and reconstruction)