

KIT plans:

H- \rightarrow tau tau and new scalars

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Who we are?

- Markus Klute
 - Strong interest in FCC-ee since many years, member of FCC coordination group, speakers buro, past snowmass contact
 - Moved from MIT to KIT and initiated a working group
- Clement Helsens
 - Strong interest in FCC since many years, SW and computing group coordinator
 - Moved from CERN to KIT and supervising the FCC activities at KIT, ~90% on FCC
- Xunwu Zuo
 - Recently graduated from Florida, and moved to KIT 2 weeks ago
 - Starting to get familiar with analysis SW, ~50% on FCC

What we will do?

- Strong interest in tau and flavour physics with tau's
 - Benchmarking detector, esp. calorimeter design
- Concerning the Higgs:
 - Start with searches for new light scalars (using recoil mass) to get familiar with the analysis framework.
 - Implement the necessary modifications to the analysis SW such that physics with tau's could be done
 - Continue with $H \rightarrow \tau \tau$ as a starting point before going to tau's at the Z-pole