
status update

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ACTS Area-D meeting

Ralf Farkas
ralf@uni-bonn.de

me – hello 😊

- started PhD in Bonn in October 2019
 - **‘Track finding with ACTS and Belle 2’**
 - Bernlochner group
- currently in Berkeley from January → March
 - IRIS-HEP fellowship
 - collaboration with Xiaocong Ai & Heather Gray

CKF — Combinatorial Kalman Filter

- Xiaocong was working on CKF in ACTS-core
- I created classes in the FW for it:
 - FindingAlgorithm → interface core ↔ FW
 - CKFPerformanceWriter → .root tree: efficiency, fake rate...
 - RecCKFTracks → example sequence for CKF reconstruction
- testing + validation
 - for now: particle gun / muons
 - Pythia / ttbar

Belle 2 geometry – basf2 → ACTS

- Nils Braun (former postdoc KIT)
 - include ACTS into basf2
 - use basf2's geometry module
 - create `Acts::TrackingGeometry`
 - requires basf2 ☹
- .root file for Belle 2 geometry → `FW::BuildTGeoDetector`