

# Acts PR & Issue Recap

Robert Langenberg

University of Massachusetts

*robert.langenberg@cern.ch*

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# Overview

- 1 acts-project/acts  
Merged PRs
- 2 acts-project/acts  
Open PRs (non WIP)
- 3 acts-project/acts  
Issues opened since 2022-01-18
- 4 acts-project/acts  
Stale Issues and PRs

- **feat: Make binning explicitly configurable in TGeo example** (PR#1126)  
by @niermann999, merged on 2022-01-18
- **build: upgrade autodiff version** (PR#1136)  
by @benjaminhuth, merged on 2022-01-18
- **fix: CKF flags material surfaces as holes** (PR#1137)  
by @paulgessinger, merged on 2022-01-18
- **fix: Prevent FPE in AMVF if covariance is not invertible** (PR#1142)  
by @paulgessinger, merged on 2022-01-20
- **fix: Delegate checks exact compatibility of signatures** (PR#1141)  
by @paulgessinger, merged on 2022-01-21
- **refactor: Optimize 'TrapezoidBounds' inside check** (PR#1118)  
by @paulgessinger, merged on 2022-01-24

## acts-project/acts: Open PRs (non WIP) I

- **fix: Bug when sorting the SP in SeedFinder** (PR#1143)  
by @LuisFelipeCoelho, updated on 2022-01-25
- **feat: MultiStepper for the GSF** (PR#1110)  
by @benjaminhuth, updated on 2022-01-24
- **refactor: Move Digitization from Plugins to Core** (PR#1138)  
by @toyamaza, updated on 2022-01-20
- **refactor!: Reduce heap allocations in navigation** (PR#1124)  
by @paulgessinger, updated on 2022-01-19
- **feat: Gaussian Sum Filter** (PR#1134)  
by @benjaminhuth, updated on 2022-01-19
- **test: Remove expected\_failures from tests** (PR#1116)  
by @paulgessinger, updated on 2022-01-12
- **feat: Python particle gun and Fatras examples can be chained**  
(PR#1128)  
by @timadye, updated on 2022-01-11

- **Overlapping volumes exception for ITk geometry** (Issue#1144)  
by @timadye, updated on 2022-01-25
- **Bug: issue on first build after DD4hep update on system with globally installed acts** (Issue#1139)  
by @gagnonlg, updated on 2022-01-21

- **python config for example chains** (Issue#1098)  
by @timadye, updated on 2022-01-22
- **Create CylinderBounds with inclined cut-off** (Issue#1072)  
by @asalzburger, updated on 2022-01-08
- **Add example (+test) for vertex fitting with constraints**  
(Issue#1100)  
by @paulgessinger, updated on 2022-01-07
- **Vertexing issues observed in python vertexing example**  
(Issue#1091)  
by @paulgessinger, updated on 2021-12-31
- **Bug? in ActsExampleFatrasTGeo event processing with Pythia input** (Issue#1050)  
by @plariono, updated on 2021-12-31

- **feat: Implement a new orthogonal range search seed finder** (PR#904)  
by @stephenswat, updated on 2021-12-25
- **feat: change default of smearing, rename file** (PR#992)  
by @asalzburger, updated on 2021-12-18
- **Some writers performs their writes in the destructor** (Issue#881)  
by @paulgessinger, updated on 2021-12-11
- **2D r-z Magnetic Field Map Improperly Read** (Issue#669)  
by @osbornjd, updated on 2021-12-06
- **Should seed finding tools have a higher-level interface?** (Issue#988)  
by @stephenswat, updated on 2021-11-25
- **[bug] Off axis endcap with dd4hep plugin.** (Issue#942)  
by @whit2333, updated on 2021-11-25

- **Improvement: Estimate track parameters from seed at perigee surface** (Issue#1036)  
by @XiaocongAi, updated on 2021-11-10
- **Polyhedron surfaces tests are disabled** (Issue#454)  
by @msmk0, updated on 2021-11-04
- **Tracking for TPC/DC without surfaces** (Issue#165)  
by @FabianKlimpel, updated on 2021-11-04
- **BoundingBox tests fail on double precision** (Issue#752)  
by @paulgessinger, updated on 2021-11-04
- **Debug Information in Acts Seeder** (Issue#944)  
by @osbornjd, updated on 2021-10-21
- **fix: avoid double-static cast** (Issue#647)  
by @asalzburger, updated on 2021-10-21