Pull request and issue summary for acts-project/acts

August 27, 2024

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 |

- ► ‰ ci: bump histcmp to 0.6.7 to try to fix yerr issue (#3504) by @paulgessinger, ✓ reviewed by @AJPfleger, merged on 2024-08-13
- ► For refactor: Split 'KalmanVertexUpdater' by dimension (#3503) by @paulgessinger, reviewed by @benjaminhuth, merged on 2024-08-13
- ▶ chore: Bump minimum GeoModel version to 6.3.0 (#3476) by @andiwand, ✓ reviewed by @AJPfleger, merged on 2024-08-14
- ▶ fix: Ensure ODD cleanup if sequencer stops in Examples Python tests (#3471) by @andiwand, reviewed by @paulgessinger, merged on 2024-08-14
- ▶ fix: Add missing newline for 'Sequencer' 'timing.csv' in Examples (#3508) by @andiwand, reviewed by @paulgessinger, merged on 2024-08-14
- ▶ **build: Bump minimum Eigen version to v3.4.0** (#3511) by @paulgessinger, reviewed by @benjaminhuth, merged on 2024-08-15
- ▶ build: Cleanup cmake options, fix detray plugin (#3509)
 by @paulgessinger, ✓ reviewed by @benjaminhuth, merged on 2024-08-15

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 II

- ▶ perf: Drop 'stateBuffer' from Core CKF (#3458) by @andiwand, reviewed by @paulgessinger, merged on 2024-08-19
- ► chore: Add cmake-format to pre-commit (#3497) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-08-19
- ► ‰ fix: add inline keyword to function PhotonConversion::generateChildren in PhotonConversion.hpp (#3516)
 by @Biblehome, ✓ reviewed by @andiwand, merged on 2024-08-19
- ▶ 🖟 ci: Drop LCG 104 job (DD4hep too old for current ODD) (#3512) by @paulgessinger, 🗸 reviewed by @AJPfleger, merged on 2024-08-19
- ▶ **fix:** make boost version checks work and use optimized range insertion (#3515) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2024-08-20

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 III

- ▶ ्रै⊸ build: Downgrade boost version error to warning (#3522) by @paulgessinger,, merged on 2024-08-20
- ▶ **logical points Proof. Proof.**
- ▶ **fix: Handle missing field in 'SympyStepper'** (#3525) by @andiwand, ✓ reviewed by @asalzburger, merged on 2024-08-20
- ► chore: Update compiler warning flags (#3495) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-08-20
- ▶ **feat: refactor and generalize propagation validation** (#3514) by @asalzburger, ✓ reviewed by @andiwand, merged on 2024-08-21
- ▶ % revert: "refactor: Rework projector (#3453)" (#3527) by @andiwand, ✓ reviewed by @paulgessinger, merged on 2024-08-21
- ▶ } fix: Change the component reducer for the GSF (to fix navigation issues) (#3521) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2024-08-21
- ▶ \$\infty\$ feat: Add GeoModel to G4 detector construction helper (#3530) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2024-08-21

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 IV

- ▶ feat: Bind some Gen1 geometry building functionality to python (#3448) by @benjaminhuth, ✓ reviewed by @paulgessinger, merged on 2024-08-22
- ▶ feat: Telescope style seeding (#3300) by @ssdetlab, ✓ reviewed by @paulgessinger, merged on 2024-08-22
- ▶ \$\(\)\$ feat: GeoModelDetectorObjectFactory for flexible conversion of GeoModel objects to Acts Surfaces and Volumes (#3499)

 by @Berggren-Jonas, ✓ reviewed by @paulgessinger, merged on 2024-08-22
- ▶ **fix: Clang Tidy issues in GeoModel plulgin** (#3545) by @paulgessinger, ✓ reviewed by @stephenswat, merged on 2024-08-23
- ▶ \$\infty\$ feat(geo): 'Surface::isOnSurface' gets tolerance parameter (#3544) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-08-23
- ▶ ‰ feat: Max chi2 for outliers in Core 'MeasurementSelector' (#3475) by @andiwand, ✓ comment by @timadye, merged on 2024-08-24

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 V

- ▶ feat(geo): Add name setter and move constructor to 'TrackingVolume' (#3542) by @paulgessinger, ✓ reviewed by @benjaminhuth, merged on 2024-08-24
- ► feat: Add displaced vertex generator (#3446) by @AichaMattouhi, ✓ comment by @AichaMattouhi, merged on 2024-08-24
- ▶ refactor: Remove uses of 'std::enable_if' (#3484) by @stephenswat, reviewed by @paulgessinger, merged on 2024-08-24
- ► For refactor: Remove unnecessary 'activeBranches.empty()' condition from Core CKF (#3541) by @andiwand, reviewed by @paulgessinger, merged on 2024-08-25
- ▶ test: Assert 'onSurface' in 'Navigator' (#3533) by @andiwand, ✓ reviewed by @paulgessinger, merged on 2024-08-25
- ▶ **feat: Renavigation for Gen1** (#3437) by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2024-08-26
- ► refactor(gx2f): logic for multipleScattering option (no effect yet) (#3551) by @AJPfleger, reviewed by @andiwand, merged on 2024-08-26

acts-project/acts: PRs merged between 2024-08-13 and 2024-08-27 VI

- ► refactor(gx2f): remove outdated navigation abort conditions (#3552) by @AJPfleger, reviewed by @andiwand, merged on 2024-08-26
- ► fix: remove outdated full chain (#3553) by @AJPfleger, ✓ reviewed by @andiwand, merged on 2024-08-26
- ▶ fix: Handle if all branches are stopped after filtering in Core CKF (#3555) by @andiwand, ✓ reviewed by @paulgessinger, merged on 2024-08-26
- ► feat(geo): Gen3 portal links (#3531) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-08-26
- ▶ 🖟 fix(gx2f): correct trackstates for material surfaces (#3556) by @AJPfleger, 🔽 reviewed by @andiwand, merged on 2024-08-27
- ► feat: Add B-field accessors to Python bindings (#3554) by @stephenswat, ✓ reviewed by @paulgessinger, merged on 2024-08-27

acts-project/acts: Open PRs I

- ▶ \$\times\$ feat: GeoModel plugin changes for ITk building. (#3519) by @benjaminhuth, \$\square\$ comment by @benjaminhuth, updated on 2024-08-27
- ▶ \$\times\$ refactor: Rework G4 surface mapping to make it more robust (#3562) by @benjaminhuth, \$\square\$ comment by @benjaminhuth, updated on 2024-08-27
- ▶ \$\instrum \text{feat: Add covfie magnetic field plugin (#3479)} \text{by @stephenswat, \$\sqrt{\sqrt{\colored}}\$ comment by @stephenswat, updated on 2024-08-27
- ▶ \$\int \text{fix: Make 'RootTrackStatesWriter' FPE safe (#3559)} by @andiwand, \$\sqrt{\text{v}}\text{ reviewed by @AJPfleger, updated on 2024-08-27}\$
- ▶ ↑ refactor: Add C++20 track parameter, navigator, and stepper concepts (#3492) by @stephenswat, ✓ reviewed by @andiwand, updated on 2024-08-27
- ▶ ↑ refactor: Some refactorings around the G4 simulation (#3532) by @benjaminhuth, ✓ reviewed by @andiwand, updated on 2024-08-27
- ▶ \$\infty\$ feat: Gen3 geometry Portals (#3501) by @paulgessinger, reviewed by @andiwand, updated on 2024-08-27

acts-project/acts: Open PRs II

- ► in ci: Add pre-commit hooks for most of our linting (#3560)
 by @paulgessinger, reviewed by @benjaminhuth, updated on 2024-08-27
- ➤ \$\times \text{refactor(gx2f): early exit for the Actor (#3566)} by @AJPfleger, \$\times \text{reviewed by @andiwand, updated on 2024-08-27}\$
- ▶ \$\frac{1}{2}\$ refactor: Rework projector (#3529) by @andiwand,review requested, updated on 2024-08-27
- ▶ \$\instrum \text{fix: Further fixes to detray plugin (#3563)} \\
 by @stephenswat, \(\sqrt{\comment} \) comment by @paulgessinger, updated on 2024-08-27
- ▶ (#3461) refactor: Accelerating the Hough Transform (#3461) by @dimitra97, ✓ comment by @dimitra97, updated on 2024-08-27
- ▶ \$\int \text{fix!: make material validity checks and construction explicit (#3494)} by @AJPfleger, \$\square\$ comment by @AJPfleger, updated on 2024-08-27

acts-project/acts: Open PRs III

- ▶ \$\tilde{\cappa}\$ feat: Adding efficiency vs production radius to output root files (#3539) by @AichaMattouhi, \$\tilde{\cup}\$ comment by @paulgessinger, updated on 2024-08-26
- ▶ **[** feat: introduce navigation stream (#3538) by @asalzburger, ✓ comment by @andiwand, updated on 2024-08-26
- ▶ **1** feat: Hashing seeding algorithm (#3148) by @CouthuresJeremy, ✓ comment by @CouthuresJeremy, updated on 2024-08-26
- ► \$\frac{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sqrt{\sin}}}}}}}} \end{\sqrt{\sqrt{\sint{\sint{\eqrt{\sint{\sqrt{\sqrt{\si
- ► \$\times\$ Stale feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, comment by @dimitra97, updated on 2024-08-23
- Stale feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432)
 - by @CarloVarni, no reviewer, updated on 2024-08-23
- ▶ î ci: Reenable some ExaTrkX tests (#3395) by @benjaminhuth, no reviewer, updated on 2024-08-22

acts-project/acts: Open PRs IV

- ▶ \$\instrum \text{fix: Require TBB to be found by cmake (#3507)} by @benjaminhuth, \$\sqrt{\text{reviewed by @timadye, updated on 2024-08-22}}\$
- ► Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth,review requestedreview requested, updated on 2024-08-21
- ▶ ↑ refactor!: 'VolumeBounds' becomes a scoped enum (#3513) by @paulgessinger, ↑ no reviewer, updated on 2024-08-20
- ▶ \$\instrum \text{feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268)} by @Matthewharri, \$\sqrt{\coloredge}\$ comment by @Matthewharri, updated on 2024-08-19
- ► Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15
- ▶ \$\infty\$ feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, \infty\$ no reviewer, updated on 2024-08-14
- Stale refactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, no reviewer, updated on 2024-08-10
- ▶ \$\infty\$ refactor!: SourceLink setting only via rvalue reference (#3488) by @paulgessinger, \infty\$ no reviewer, updated on 2024-08-09

acts-project/acts: Open PRs V

- ▶ \$\instrum \text{fix!: Use 'ActsScalar' in binning tools} (#3482) by @stephenswat, \$\sqrt{\text{omment by @stephenswat, updated on 2024-08-09}}\$
- ▶ \$\infty\$ feat: allow bare Surface pointers to be written to JSON (#3493) by @asalzburger, \$\square\$ comment by @paulgessinger, updated on 2024-08-08
- ▶ (#3308)
 ▶ @AJPfleger, ★ changes requested by @stephenswat, updated on 2024-08-02
- ▶ \$\infty\$ feat: traccc plugin (conversion) (#3281) by @fredevb, \$\infty\$ comment by @paulgessinger, updated on 2024-08-01
- ▶ \$\instrum \text{fix: detray plugin (cmake flags, CI, and compile errors)} (#3363) by @fredevb, \$\sqrt{\sqrt{\sqrt{\cong}}}\$ comment by @EleniXoch, updated on 2024-08-01
- ▶ \$\infty\$ feat: covfie plugin (#3117) by @fredevb, \$\square\text{Z}\$ comment by @paulgessinger, updated on 2024-08-01
- ▶ \$\instyle{\textbf{p}} \text{ feat!: (fix + chore) streamline nSegments usage (#3419)} by @asalzburger, \$\square\$ comment by @asalzburger, updated on 2024-07-29
- ► \$\frac{1}{2}\$ Stale style: Update clang-format to v18 (#3319) by @stephenswat, \(\bar{1} \) no reviewer, updated on 2024-07-21

acts-project/acts: Open PRs VI

- ► Stale feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, ✓ comment by @paulgessinger, updated on 2024-07-15
- Stale feat: Geometry agnostic space point maker (#2890) by @AlonI14, no reviewer, updated on 2024-07-06
- ► \$\times\$ Stale feat: introduction obj simhit writer (#3180) by @asalzburger, \(\begin{array}{c}\) no reviewer, updated on 2024-06-15
- ▶ 1 WIP feat: Dense 'MeasurementContainer' for Examples (#3528) by @andiwand, ↑ no reviewer, updated on 2024-08-27
- by @andiwand, no reviewer, updated on 2024-08-27
- by @andiwand, no reviewer, updated on 2024-08-27
- by @andiwand, no reviewer, updated on 2024-08-27

acts-project/acts: Open PRs VII

- ▶ \$\times \text{WIP} \text{ refactor: Remove far limit hack from 'Layer::compatibleSurfaces' (#3558) by @andiwand, \text{ reviewed by @AJPfleger, updated on 2024-08-27}
- ▶ (**) WIP feat(gx2f): material effects multiple scattering (#3292) by @AJPfleger, ↑ no reviewer, updated on 2024-08-27
- by @paulgessinger, no reviewer, updated on 2024-08-27
- ▶ (** WIP refactor: Write unbiased states only for smoothed in 'RootTrackStatesWriter' (#3561) by @andiwand, no reviewer, updated on 2024-08-27
- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ feat: Gen 3 portal shells (#3564) by @paulgessinger, \int \text{no reviewer}, updated on 2024-08-27
- ► ↑ WIP fix: Return 'nullptr' if outside tracking geometry in 'TrackingGeometry::lowestTrackingVolume' (#3481) by @andiwand, ✓ comment by @andiwand, updated on 2024-08-26

acts-project/acts: Open PRs VIII

- by @andiwand, no reviewer, updated on 2024-08-26
- by @andiwand, no reviewer, updated on 2024-08-25
- ▶ \$\times \quad \text{WIP} \text{ refactor: Remove remaining detection idiom usage (#3547)} by @stephenswat, \(\bar{\Lambda} \) no reviewer, updated on 2024-08-23
- > \(\) \(\
- ▶ 1 WIP feat: Allow user to supply root branch to Core CKF (#3534) by @andiwand, reviewed by @timadye, updated on 2024-08-22
- ▶ \$\times \text{WIP} \text{ feat: Add statistics to propagation (#3450)} by @andiwand, \text{ comment by @paulgessinger, updated on 2024-08-22}

acts-project/acts: Open PRs IX

- ▶ ↑ WIP feat: detray plugin surface grids (#3429) by @EleniXoch, ✓ comment by @EleniXoch, updated on 2024-08-22
- ▶ ↑ WIP refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger,review requested, updated on 2024-08-22

- ► \$\ \cdots \ \text{WIP} \ \text{Stale} \ \text{feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414)} \ \text{by @pbutti, \cdot no reviewer, updated on 2024-08-22} \end{align*}
- ▶ 1 WIP refactor!: Decouple navigation and stepping (#3449) by @andiwand, no reviewer, updated on 2024-08-21
- by @paulgessinger, no reviewer, updated on 2024-08-20

acts-project/acts: Open PRs X

- ▶ 1 WIP Stale refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, no reviewer, updated on 2024-08-17
- by @benjaminhuth, no reviewer, updated on 2024-08-17
- by @fredevb, no reviewer, updated on 2024-08-16
- by @fredevb, no reviewer, updated on 2024-08-16
- ▶ ↑ WIP refactor: Rework detector handling in Examples (#3498) by @andiwand, ↑ no reviewer, updated on 2024-08-08
- ▶ \$\times \text{WIP} refactor!: Template algorithms on track container frontend 'TrackContainer' (#3193) by @andiwand, \textsize comment by @andiwand, updated on 2024-08-07
- by @paulgessinger, comment by @paulgessinger, updated on 2024-08-01

acts-project/acts: Open PRs XI

- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale refactor!: Surface returns transform by value (#2527) by @asalzburger, \$\hat{\text{N}}\$ no reviewer, updated on 2024-07-22
- ▶ \$\frac{1}{200}\$ WIP Stale refactor: Some internal GSF refactorings (#2697) by @benjaminhuth, ★ changes requested by @andiwand, updated on 2024-07-21
- ▶ \$\times \text{WIP} \text{ Stale feat: Add per event timing (#3124)} by @CouthuresJeremy, \$\times\$ comment by @andiwand, updated on 2024-07-11
- by @benjaminhuth, comment by @benjaminhuth, updated on 2024-05-25

acts-project/acts: Issues opened since 2024-08-13 |

- ► © Error while building Geant4 plugin (#3557) by @nibir98, updated on 2024-08-27
- ► Cleanup: BinningValue, AxisBounds + detray/Integration (#3549) by @asalzburger, updated on 2024-08-26
- 'common' CMake preset requires ccache (#3537) by @stephenswat, updated on 2024-08-22
- ▶ Proposal: surface and portal navigation (including target surfaces) for Gen3 (#3526) by @asalzburger, updated on 2024-08-22

acts-project/acts: New stale Issues / PRs since 2024-08-13 | I

- ► Stale 'MultiEigenStepperLoop' returns position not on surface while components are (#3441) by @andiwand, updated on 2024-08-24
- ► Stale 'TrackStateType' is easy to get wrong (#3439) by @andiwand, updated on 2024-08-24
- ► Stale feat: speed up detector navigator (#3435) by @asalzburger, no reviewer, updated on 2024-08-24
- Stale feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432)
 by @CarloVarni, no reviewer, updated on 2024-08-23
- ▶ Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, no reviewer, updated on 2024-08-21
- ► \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414) by @pbutti, \(\hrac{\sqrt{no}}{\sqrt{no}} \) no reviewer, updated on 2024-08-22

acts-project/acts: New stale Issues / PRs since 2024-08-13 II

- by @benjaminhuth, no reviewer, updated on 2024-08-17
- by @fredevb, no reviewer, updated on 2024-08-16
- ▶ Stale Multiple context references are in flight for track fitters and finder (#3383) by @andiwand, updated on 2024-08-14
- by @fredevb, no reviewer, updated on 2024-08-16
- by @andiwand, no reviewer, updated on 2024-08-17
- Stale feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, no reviewer, updated on 2024-08-23
- Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15

acts-project/acts: New stale Issues / PRs since 2024-08-13 III

- ► Stale TrackAtVertex trackWeight is not being written in IVF (#2149) by @andiwand, updated on 2024-08-15
- Stale refactor: add geohook for fast digitization range selection to itk example (#2089)
 by @niermann999, no reviewer, updated on 2024-08-23

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- ► Stale 'MultiEigenStepperLoop' returns position not on surface while components are (#3441) by @andiwand, updated on 2024-08-24
- ► Stale 'TrackStateType' is easy to get wrong (#3439) by @andiwand, updated on 2024-08-24
- Stale feat: speed up detector navigator (#3435) by @asalzburger, no reviewer, updated on 2024-08-24
- Stale feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, no reviewer, updated on 2024-08-23
- Stale feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432)
 - by @CarloVarni, no reviewer, updated on 2024-08-23
- WIP Stale refactor: add geohook for fast digitization range selection to itk example (#2089)
 by @niermann999, no reviewer, updated on 2024-08-23
 - by emericanisss, in teviewer, updated on 2024-00-

acts-project/acts: All stale Issues / PRs II

- ► \$\times \text{WIP} \text{ Stale} \text{ feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414)} by @pbutti, \text{ no reviewer, updated on 2024-08-22}
- ▶ \$\ \frac{\text{Stale}}{\text{Stale}}\$ refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, \(\hat{\text{No reviewer}}\), updated on 2024-08-21
- ▶ **Stale** bug: navigation suggests 'pathCorrection=inf' on cylinderSurface (#3267) by @AJPfleger, updated on 2024-08-17
- ▶ \$\frac{\sqrt{\text{WIP}}}{\text{wip}}\$ Stale refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, \$\hat{\text{\text{no reviewer}}}\$, updated on 2024-08-17
- by @benjaminhuth, no reviewer, updated on 2024-08-17
- by @fredevb, no reviewer, updated on 2024-08-16
- by @fredevb, no reviewer, updated on 2024-08-16

acts-project/acts: All stale Issues / PRs III

- Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15
- ► Stale TrackAtVertex trackWeight is not being written in IVF (#2149) by @andiwand, updated on 2024-08-15
- ▶ Stale Multiple context references are in flight for track fitters and finder (#3383) by @andiwand, updated on 2024-08-14
- ▶ \$\times\$ Stale refactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, \(\hat{\hat}\) no reviewer, updated on 2024-08-10
- Stale Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment (#1778)
 by @tboldagh, updated on 2024-07-24
- ▶ \$\frac{\tau}{\tau}\$ WIP Stale refactor!: Surface returns transform by value (#2527) by @asalzburger, \(\hat{\tau} \) no reviewer, updated on 2024-07-22
- by @benjaminhuth, no reviewer, updated on 2024-07-21

acts-project/acts: All stale Issues / PRs IV

- ► Stale style: Update clang-format to v18 (#3319) by @stephenswat, no reviewer, updated on 2024-07-21
- ► Stale feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, no reviewer, updated on 2024-07-15
- by @CouthuresJeremy, no reviewer, updated on 2024-07-11
- ► \$\frac{\cappa}{\cappa}\$ Stale feat: Geometry agnostic space point maker (#2890) by @Alon114, \(\begin{array}{c}\) no reviewer, updated on 2024-07-06
- Stale [bug] Off axis endcap with dd4hep plugin. (#942) by @whit2333, updated on 2024-06-26
- Stale Debug Information in Acts Seeder (#944) by @osbornjd, updated on 2024-06-26

acts-project/acts: All stale Issues / PRs V

- ▶ **Stale Documentation update: Core** (#1418) by @paulgessinger, updated on 2024-06-25
- Stale Documentation: hints for debugging (#1463)
 by @timadye, updated on 2024-06-25
- Stale Add Primary Vertex Label to tracks (#1544) by @Lucas-Borgna, updated on 2024-06-25

acts-project/acts: All stale Issues / PRs VI

- Stale Construct tracking geometry from python (#2173) by @andiwand, updated on 2024-06-25
- ► Stale Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in' (#2216) by @andiwand, updated on 2024-06-25

- Stale [Feature Request] Padding utility for field map in case tracking volume is larger than a given field map (#2523) by @janheinri, updated on 2024-06-25
- ▶ **Stale** Bug: Fatras sets step size to 0 (#2543) by @andiwand, updated on 2024-06-25
- Stale Ensure Fitters use all provided measurements (#2737) by @andiwand, updated on 2024-06-25

acts-project/acts: All stale Issues / PRs VII

- ▶ **Stale** bug: KF verbosity statement (#3097) by @osbornjd, updated on 2024-06-20
- Stale feat: introduction obj simhit writer (#3180) by @asalzburger, no reviewer, updated on 2024-06-15
- Stale EDM Memory usage (#1516) by @paulgessinger, updated on 2024-05-25
- ▶ **Stale Detailed timing per event** (#1700) by @CouthuresJeremy, updated on 2024-05-25
- by @benjaminhuth, no reviewer, updated on 2024-05-25

- Stale bug: documentation always builds in '<source>' (#2798) by @AJPfleger, updated on 2024-05-25

acts-project/acts: All stale Issues / PRs VIII

- ▶ **Stale** Bug: material map auto tuning only considers the "Default" mapping type (#2942) by @plariono, updated on 2024-05-17
- Stale bug: some dependencies in setup script wrong (#3014)
 by @AJPfleger, updated on 2024-05-17
- Stale perf: CKF measurement selector runs after track state creation (#3081) by @andiwand, updated on 2024-05-05
- Stale perf: CKF general (#3082) by @andiwand, updated on 2024-05-05
- Stale Some 'toStream' implementations change the state of 'std::ostream' (#3079) by @andiwand, updated on 2024-05-04

acts-project/acts: All stale Issues / PRs IX

- ► Stale 'EigenStepper' (and extensions) cannot be easily extended for dense environment covariance transport (#2868) by @andiwand, updated on 2024-03-20
- Stale 'Stepper' and 'Navigator' cannot be configured by 'PropagatorOptions' (#2861) by @andiwand, updated on 2024-02-09
- Stale 'AdaptiveGridTrackDensity' has a hidden 'd0' cut (#2840) by @andiwand, updated on 2024-01-17
- Stale Duplication in 'AdaptiveGridTrackDensity' and 'GaussianGridTrackDensity' (#2841) by @andiwand, updated on 2024-01-17
- ► Stale EDM4hep parameter conversion should use jacobians directly (#2813) by @paulgessinger, updated on 2024-01-11
- Stale 'Surface::boundToFreeJacobian' could also use 'FreeVector' parameters (#2810) by @andiwand, updated on 2024-01-10
- ► Carry Stale Telescope detector cookbook (#2800) by @paulgessinger, updated on 2024-01-10

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- ▶ **Stale** Write CKF documentation (#2794) by @paulgessinger, updated on 2024-01-10
- Stale Add description of Blueprint tree and how it can be used to create layerless detector. (#2785)
 by @paulgessinger, updated on 2024-01-10
- ► Stale 'SurfaceReached' aborter is messing with the step size (#2738) by @andiwand, updated on 2023-12-28
- Stale Propagation state cannot be initialized outside the propagation (#2736)
 by @andiwand, updated on 2023-12-28
- Stale FPE: AMVF keepNewVertex (#2590) by @andiwand, updated on 2023-11-26
- ▶ **Stale** Track finding rework (#2320) by @paulgessinger, updated on 2023-11-11
- Stale Propagator step count limit reached and Step size adjustment exceeds maximum trials (#2469)
 by @CarloVarni, updated on 2023-11-11

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- Stale [Feature Request] Reference surface for tracking algorithm is hardcoded to be at origin (#2525) by @janheinri, updated on 2023-11-09
- Stale Incorrect material interaction in backward propagation ? (#2429) by @Corentin-Allaire, updated on 2023-10-06
- ► Stale Expand TrackingGeometry building from DD4hep with user given input (#2403) by @asalzburger, updated on 2023-09-27
- Stale FPE: GaussianMixtureReduction (#2347) by @paulgessinger, updated on 2023-09-03

- Stale MultiTrajectory buffer default constructible (#2154) by @tboldagh, updated on 2023-07-20

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- ▶ Stale Track nDoF only returns the sum of calibrated size and not the actual DoFs. (#2076) by @pbutti, updated on 2023-06-22
- Stale Track parameter estimation algorithm return parameter on the first seed SP surface (#2037) by @Corentin-Allaire, updated on 2023-05-25
- Stale Expose individual steps of track reconstruction in full_chain python scripts (#1997) by @tboldagh, updated on 2023-05-20
- Stale Bug: Probable Issues in Bevelled Cylinder Implementation (#1238)
 by @rahmans1, updated on 2023-05-09
- Stale Physmon throws many WARNINGs on Bethe-Heitler approximation (#1748) by @paulgessinger, updated on 2023-05-09
- ▶ **Stale** SpacePoint EDM design (#1971) by @CarloVarni, updated on 2023-05-09
- ▶ Stale vertex fitting and duplicate tracks (#1992) by @rubihason, updated on 2023-05-09

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- Stale Make central minimum track momentum threshold (#1761) by @paulgessinger, updated on 2023-01-21
- Stale Optimal seeding parameters for a detector (#1699) by @CouthuresJeremy, updated on 2023-01-05
- Stale Documentation update: Examples (#1420) by @paulgessinger, updated on 2022-11-23
- Stale Documentation update: How-to (core) (#1422) by @paulgessinger, updated on 2022-11-23

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- Stale Optionally have the vertex finding recalculate perigee parameters relative to consistent reference (#1482)
 by @paulgessinger, updated on 2022-10-01
- Stale Ambiguous perigees with low momentum (#1386) by @andiwand, updated on 2022-09-20
- ▶ **Stale** Some writers performs their writes in the destructor (#881) by @paulgessinger, updated on 2022-08-11
- Stale Cut tube segment dd4hep conversion tests (#1146) by @rahmans1, updated on 2022-05-25

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- Stale Bug: issue on first build after DD4hep update on system with globaly installed acts (#1139) by @gagnonlg, updated on 2022-02-22
- ▶ Stale Should seed finding tools have a higher-level interface? (#988) by @stephenswat, updated on 2021-11-25
- Stale Improvement: Estimate track parameters from seed at perigee surface (#1036) by @XiaocongAi, updated on 2021-11-10
- ▶ Stale Tracking for TPC/DC without surfaces (#165) by @FabianKlimpel, updated on 2021-11-04