Pull request and issue summary for acts-project/acts

September 3, 2024

acts-project/acts: PRs merged between 2024-08-27 and 2024-09-03 | I

- ► 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
- ▶ ci: Add pre-commit hooks for most of our linting (#3560) by @paulgessinger, reviewed by @benjaminhuth, merged on 2024-08-27
- ▶ refactor: Add C++20 track parameter, navigator, and stepper concepts (#3492) by @stephenswat, reviewed by @andiwand, merged on 2024-08-27
- ▶ docs: Add documentation on Spack builds (#3550) by @stephenswat, reviewed by @paulgessinger, merged on 2024-08-27
- ▶ % refactor: Remove far limit hack from 'Layer::compatibleSurfaces' (#3558) by @andiwand, ✓ reviewed by @AJPfleger, merged on 2024-08-28

acts-project/acts: PRs merged between 2024-08-27 and 2024-09-03 II

- ► fix: Make 'RootTrackStatesWriter' FPE safe (#3559) by @andiwand, ✓ reviewed by @AJPfleger, merged on 2024-08-28
- ▶ feat: detray material conversion (#3546) by @asalzburger, reviewed by @EleniXoch, merged on 2024-08-28
- ▶ \$\(\cdot\) chore: Make license check work with single files (#3569) by @paulgessinger, \(\subseteq \) reviewed by @AJPfleger, merged on 2024-08-28
- ► refactor(gx2f): early exit for 'addToGx2fSums' (#3568) by @AJPfleger, reviewed by @andiwand, merged on 2024-08-28
- ► For refactor(gx2f): early exit for the Actor (#3566) by @AJPfleger, reviewed by @andiwand, merged on 2024-08-28
- ► feat: Add covfie magnetic field plugin (#3479) by @stephenswat, ✓ reviewed by @andiwand, merged on 2024-08-29

acts-project/acts: PRs merged between 2024-08-27 and 2024-09-03 III

- ▶ **feat: Gen3 geometry Portals** (#3501) by @paulgessinger, ✓ reviewed by @asalzburger, merged on 2024-08-29

- ► Frefactor: Remove remaining detection idiom usage (#3547) by @stephenswat, reviewed by @andiwand, merged on 2024-08-29
- ▶ \$\infty\$ feat: adding unit tests for 'DetrayGeometryConverter' and 'DetrayMaterialConverter' (#3572) by @asalzburger, \$\noting \text{reviewed}\$ previewed by @niermann999, merged on 2024-08-30
- ▶ perf: Improve Hough Transform performance (#3461) by @dimitra97, ✓ reviewed by @andiwand, merged on 2024-08-30
- ► feat: introduce navigation stream (#3538) by @asalzburger, ✓ reviewed by @andiwand, merged on 2024-08-30
- ▶ **fix:** correct a typo in a printout in the BinningData.hpp (#3577) by @veprbl, ✓ reviewed by @andiwand, merged on 2024-08-30

acts-project/acts: PRs merged between 2024-08-27 and 2024-09-03 IV

- ▶ feat(gx2f): material effects multiple scattering (#3292) by @AJPfleger, reviewed by @andiwand, merged on 2024-08-30
- ▶ feat: Allow Core CKF to skip the start surface (#3535) by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2024-08-30
- ▶ feat: GeoModel conversion for TGC, sTGC and MicroMega (#3540) by @Berggren-Jonas, ✓ reviewed by @andiwand, merged on 2024-08-30
- ► For refactor: Remove GX2F start volume checks (#3581) by @andiwand, reviewed by @AJPfleger, merged on 2024-08-31
- ► ci(physmon): fix weird numbers at end of log file (#3571) by @AJPfleger, ✓ reviewed by @andiwand, merged on 2024-08-31

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- ► fix: Return 'nullptr' if outside tracking geometry in 'TrackingGeometry::lowestTrackingVolume' (#3481)
 by @andiwand, ✓ reviewed by @AJPfleger, merged on 2024-08-31
- ▶ test: Check if we end up in the expected volume in Gen1 'Navigator' (#3442) by @andiwand, ✓ reviewed by @AJPfleger, merged on 2024-09-01
- ▶ fix: clear the m_r vector (#3583) by @asalzburger, reviewed by @andiwand, merged on 2024-09-02
- ► For refactor: Write smoothed states in GX2F (#3584) by @andiwand, reviewed by @AJPfleger, merged on 2024-09-03

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- ▶ \$\tilde{\text{ }} \text{ feat: detray geometry/material conversion in examples (#3579)} by @asalzburger, \$\to\$ comment by @asalzburger, updated on 2024-09-03
- ▶ \$\frac{1}{2}\$ feat: generalized conversion of FullPhysicalVolume (#3585) by @Berggren-Jonas, \$\sqrt{2}\$ comment by @Berggren-Jonas, updated on 2024-09-03
- ▶ ↑ refactor: Changed the GeoModelToDetectorVolume to be able to return Acts::Volumes (#3576) by @Berggren-Jonas, ✓ comment by @dimitra97, updated on 2024-09-03
- ▶ ↑ refactor!: Remove 'Utilities/detail/Subspace.hpp' (#3589) by @andiwand, ✓ reviewed by @AJPfleger, updated on 2024-09-03
- ▶ ↑ refactor: Write unbiased states only for smoothed in 'RootTrackStatesWriter' (#3561) by @andiwand, ✓ reviewed by @AJPfleger, updated on 2024-09-03
- ▶ ↑ refactor!: Remove 'EventData/TrackHelpers.hpp' (#3588) by @andiwand, ✓ reviewed by @AJPfleger, updated on 2024-09-03
- ▶ ↑ refactor: Rework tracklet handling in Examples track finding (#3587) by @andiwand, ✓ reviewed by @timadye, updated on 2024-09-03
- ▶ \$\infty\$ fix: Allow resetting reference surface in Track EDM (#3586) by @andiwand, reviewed by @timadye, updated on 2024-09-03

acts-project/acts: Open PRs II

- ► Ci(sonarcloud): fix shallow clone (#3590) by @AJPfleger, reviewed by @andiwand, updated on 2024-09-03
- ▶ ↑ refactor!: Template algorithms on track container frontend 'TrackContainer' (#3193) by @andiwand, ✓ comment by @andiwand, updated on 2024-09-03
- ▶ \$\times\$ feat: Memory dense 'MeasurementContainer' for Examples (#3528) by @andiwand, comment by @andiwand, updated on 2024-09-03
- ▶ \$\frac{1}{10}\$ fix!: make material validity checks and construction explicit (#3494) by @AJPfleger, \$\sqrt{10}\$ comment by @AJPfleger, updated on 2024-08-31
- ► \$\frac{\cappa}{\cappa}\$ Stale feat: traccc plugin (conversion) (#3281) by @fredevb, \$\sqrt{\cappa}\$ comment by @paulgessinger, updated on 2024-08-31
- ► \$\infty\$ Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, comment by @EleniXoch, updated on 2024-08-31
- ▶ **fix:** Further fixes to detray plugin (#3563) by @stephenswat, ✓ reviewed by @andiwand, updated on 2024-08-31
- ▶ Trefactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, ✓ comment by @Corentin-Allaire, updated on 2024-08-30

acts-project/acts: Open PRs III

- ▶ \$\frace\tag{\chi}\$ feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432) by @CarloVarni, \$\hat{\chi}\$ no reviewer, updated on 2024-08-28
- ▶ \$\times\$ Stale feat!: (fix + chore) streamline nSegments usage (#3419) by @asalzburger, ✓ comment by @asalzburger, updated on 2024-08-28
- ▶ Stale feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, ✓ comment by @dimitra97, updated on 2024-08-23
- ► Ci: Reenable some ExaTrkX tests (#3395)
 by @benjaminhuth, no reviewer, updated on 2024-08-22
- ▶ \$\infty\$ fix: Require TBB to be found by cmake (#3507) by @benjaminhuth, 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
- ▶ \$\infty\$ feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268) by @Matthewharri, \$\subseteq\$ comment by @Matthewharri, updated on 2024-08-19

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- Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15
- ▶ \$\frac{1}{2}\$ feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, \(\hat{\Lambda} \) no reviewer, updated on 2024-08-14
- ▶ ↑ refactor!: SourceLink setting only via rvalue reference (#3488) by @paulgessinger, ↑ no reviewer, updated on 2024-08-09
- ▶ \$\int \text{fix!: Use 'ActsScalar' in binning tools} (#3482) by @stephenswat, \$\square\$ comment by @stephenswat, updated on 2024-08-09
- ▶ \$\tilde{\cappa}\$ feat: allow bare Surface pointers to be written to JSON (#3493) by @asalzburger, \$\nsime\cappa\$ comment by @paulgessinger, updated on 2024-08-08
- ► \$\int\tag{Stale}\$ feat: introduction obj simhit writer (#3180) by @asalzburger, \int\tag{no reviewer}, updated on 2024-06-15

acts-project/acts: Open PRs V

- ▶ ↑ WIP refactor!: path handling to use 'std::filesystem' (#3308) by @AJPfleger, ★ changes requested by @stephenswat, updated on 2024-09-03
- by @andiwand, no reviewer, updated on 2024-09-03
- ▶ ↑ WIP refactor!: Decouple navigation and stepping (#3449) by @andiwand, ↑ no reviewer, updated on 2024-09-03
- ▶ \(\) \(
- by @andiwand, X changes requested by @timadye, updated on 2024-09-03
- ▶ ↑ WIP feat: GeoModel plugin changes for ITk building. (#3519) by @benjaminhuth, ✓ comment by @paulgessinger, updated on 2024-09-03

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- ▶ \$\times \text{WIP} \text{ Stale feat(geometry): Allow operator« on surfaces without detector elements (#3467) by @paulgessinger, \text{ comment by @paulgessinger, updated on 2024-08-31}
- ▶ 1 WIP perf: Use MBF smoother by default in 'TrackHelpers' (#3582) by @andiwand, ↑ no reviewer, updated on 2024-08-30
- ▶ (**) WIP refactor!: Fuse 'Actor' and 'Aborter' (#3573) by @andiwand, ✓ reviewed by @stephenswat, updated on 2024-08-30
- by @andiwand, no reviewer, updated on 2024-08-30
- ▶ ↑ WIP refactor: Detector Element refactoring proposal (#3574) by @benjaminhuth, ✓ comment by @asalzburger, updated on 2024-08-29
- ▶ \$\infty \quad \text{WIP} \text{ feat: Adding efficiency vs production radius to output root files (#3539)} by @AichaMattouhi, \(\nspect{\sqrt{\text{comment}}} \) comment by @paulgessinger, updated on 2024-08-29
- by @paulgessinger, no reviewer, updated on 2024-08-28

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- by @paulgessinger, no reviewer, updated on 2024-08-27
- ▶ 1 WIP feat: Add statistics to propagation (#3450) by @andiwand, ✓ comment by @paulgessinger, updated on 2024-08-22
- ▶ \$\times \text{WIP} \text{ feat: detray plugin surface grids } (#3429) by @EleniXoch, \$\times \text{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
- ▶ (WIP draft: Gauss vertex seeding with time (#3491) by @CENcII, comment by @andiwand, updated on 2024-08-22
- ► \$\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}
- by @paulgessinger, no reviewer, updated on 2024-08-20

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- 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
- ▶ \$\times \text{WIP} \text{ refactor: Rework detector handling in Examples (#3498)} by @andiwand, \text{\hat{\Lambda} no reviewer}, updated on 2024-08-08
- ▶ ↑ 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, \text{V} comment by @andiwand, updated on 2024-07-11}

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▶ \$\frac{1}{10}\$ WIP Stale feat: Add GSF component momentum cut to stabilize fit (#2661) by @benjaminhuth, ✓ comment by @benjaminhuth, updated on 2024-05-25

acts-project/acts: Issues opened since 2024-08-27 |

► • Version 37 (#3575) by @andiwand, updated on 2024-09-03

acts-project/acts: New stale Issues / PRs since 2024-08-27 | |

- by @paulgessinger, no reviewer, updated on 2024-08-31
- ▶ \$\times\$ Stale feat!: (fix + chore) streamline nSegments usage (#3419) by @asalzburger, ↑ no reviewer, updated on 2024-08-28
- Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, no reviewer, updated on 2024-08-31
- ▶ Stale feat: traccc plugin (conversion) (#3281) by @fredevb, ↑ no reviewer, updated on 2024-08-31

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- ▶ \$\int \text{Stale} \text{ feat: traccc plugin (conversion)} (#3281) by \text{ @fredevb, \text{\left} no reviewer}, updated on 2024-08-31
- ► \$\frac{\capacitan}{\capacitan}\$ Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, \(\hat{\capacitan}\) no reviewer, updated on 2024-08-31
- ▶ [*] WIP Stale feat(geometry): Allow operator« on surfaces without detector elements (#3467) by @paulgessinger, ↑ no reviewer, updated on 2024-08-31
- ► \$\frac{\cappa}{\text{Stale}}\$ feat!: (fix + chore) streamline nSegments usage (#3419) by @asalzburger, \$\frac{\cappa}{\text{no reviewer}}\$, updated on 2024-08-28
- ► Stale feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, no reviewer, updated on 2024-08-23
- ► \$\frac{\sqrt{\text{WIP}}}{\text{wip}}\$ Stale feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414) by @pbutti, \text{\text{no reviewer}}, updated on 2024-08-22
- ▶ \$\frac{\capaciton}{\capaciton}\$ Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, \(\begin{array}{c}\) no reviewer, updated on 2024-08-21

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

- ▶ \$\frac{1}{100}\$ WIP Stale refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, \(\bar{1}\) 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
- ► Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15
- Stale Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment (#1778) by @tboldagh, updated on 2024-07-24
- by @benjaminhuth, no reviewer, updated on 2024-07-21

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

- ► Stale style: Update clang-format to v18 (#3319) by @stephenswat, no reviewer, updated on 2024-07-21
- by @CouthuresJeremy, no reviewer, updated on 2024-07-11
- 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

- Stale Documentation: hints for debugging (#1463) by @timadye, updated on 2024-06-25

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

- Stale Add Primary Vertex Label to tracks (#1544) by @Lucas-Borgna, updated on 2024-06-25
- Stale Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON (#1818) by @DraTeots, updated on 2024-06-25
- Stale EstimateTrackParamsFromSeed does not use time of measurement (#2136) by @andiwand, updated on 2024-06-25
- Stale Construct tracking geometry from python (#2173) by @andiwand, updated on 2024-06-25

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- ▶ **Stale** [Bug] Fatras can't seem to handle energy loss for electrons on thin surfaces (#2498) by @janheinri, 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

- ► \$\int\tag{Stale}\$ feat: introduction obj simhit writer (#3180) by @asalzburger, \int\tag{no reviewer}, updated on 2024-06-15

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- Stale EDM Memory usage (#1516) by @paulgessinger, updated on 2024-05-25
- by @benjaminhuth, no reviewer, updated on 2024-05-25
- Stale Question: Set a different value of eta range using ODD (#2776) by @rubihason, updated on 2024-05-25
- Stale bug: documentation always builds in '<source>' (#2798) by @AJPfleger, updated on 2024-05-25
- Stale bug: IVF is throwing errors in ODD full chain (#3120) by @andiwand, updated on 2024-05-18
- Stale Documentation on geometry misalignments (#2940) by @paulgessinger, updated on 2024-05-17

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- ▶ **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 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
- 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

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- Stale Fitters use 'PropagatorPlainOptions' and not 'PropagatorOptions' (#2862) 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
- ► Stale Telescope detector cookbook (#2800) 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

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- ► 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 Propagator step count limit reached and Step size adjustment exceeds maximum trials (#2469)
 - by @CarloVarni, updated on 2023-11-11
- 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

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- 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 Inconsistent use of 'VolumeMaterialInteraction' thickness (#2279) by @andiwand, updated on 2023-08-05
- Stale Move some Digitization code from FATRAS to Core? (#2230) by @benjaminhuth, updated on 2023-07-28
- ▶ 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

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- 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
- Stale Bug: Unpredicatable navigation in layer with overlapping surface (#1852) by @Corentin-Allaire, updated on 2023-03-25

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- Stale Optimal seeding parameters for a detector (#1699) by @CouthuresJeremy, updated on 2023-01-05

- Stale Documentation update: How-to (core) (#1422) by @paulgessinger, updated on 2022-11-23

- Stale Optionally have the vertex finding recalculate perigee parameters relative to consistent reference (#1482)
 by @paulgessinger, updated on 2022-10-01

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- Stale Ambiguous perigees with low momentum (#1386) by @andiwand, updated on 2022-09-20
- Stale Fatras: Bethe-Heitler calculation wrong? (#1437) by @asalzburger, updated on 2022-09-20
- Stale Some writers performs their writes in the destructor (#881) by @paulgessinger, updated on 2022-08-11
- ► Stale Magnetic Field Storage (#1239) by @osbornid, updated on 2022-06-12
- Stale Cut tube segment dd4hep conversion tests (#1146) by @rahmans1, updated on 2022-05-25
- 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

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- Stale Tracking for TPC/DC without surfaces (#165) by @FabianKlimpel, updated on 2021-11-04
- ▶ **Stale** BoundingBox tests fail on double precision (#752) by @paulgessinger, updated on 2021-11-04