Pull request and issue summary for acts-project/acts

September 24, 2024

acts-project/acts: PRs merged between 2024-09-10 and 2024-09-24 |

- ▶ iso refactor: replace 'Acts::min_max' with 'std::ranges::minmax_element' (#3601) by @AJPfleger, reviewed by @stephenswat, merged on 2024-09-10
- For refactor!: Rename 'EigenStepper' dense extension (#3603) by @andiwand, reviewed by @AJPfleger, merged on 2024-09-10
- For refactor: update 'to_array' (#3600) by @AJPfleger, reviewed by @stephenswat, merged on 2024-09-10

- ► fix: adding Geomentryld to detray portals (#3606) by @asalzburger, V reviewed by @niermann999, merged on 2024-09-11
- Image: Section Sect

acts-project/acts: PRs merged between 2024-09-10 and 2024-09-24 II

- ▶ feat: add counters to propagation summary (#3602) by @asalzburger, ✓ reviewed by @benjaminhuth, merged on 2024-09-12
- ▶ \$\sime\$ feat: generalized conversion of FullPhysicalVolume (#3585) by @Berggren-Jonas, ♥ reviewed by @noemina, merged on 2024-09-16
- ▶ horefactor!: 'VolumeBounds' becomes a scoped enum (#3513) by @paulgessinger, ✓ reviewed by @asalzburger, merged on 2024-09-16
- ► isometric for the second second
- ► fix: Remove 'using namespace' in Detray plugin header (#3616) by @paulgessinger, V reviewed by @stephenswat, merged on 2024-09-17
- Image: Section of the section of
- ▶ feat: broadcast dataflow check to python (#3624) by @asalzburger, ✓ reviewed by @benjaminhuth, merged on 2024-09-18
- For refactor: TrackingGeometry interface cleanup (#3612) by @paulgessinger, reviewed by @benjaminhuth, merged on 2024-09-18

acts-project/acts: PRs merged between 2024-09-10 and 2024-09-24 III

- ▶ be refactor: Improved Python bindings for algebra types (#3611) by @paulgessinger, reviewed by @asalzburger, merged on 2024-09-19
- ▶ feat: Improvements to multitrajectory iterators (#3619) by @stephenswat, reviewed by @paulgessinger, merged on 2024-09-19
- Image: Second Second

by @Ragansu, 🔽 reviewed by @CarloVarni, merged on 2024-09-19

- k- chore: synchronize versions (#3631)
 by @asalzburger, V reviewed by @stephenswat, merged on 2024-09-20
- Image: Section Section Section 3D location and API (#3622) by @paulgessinger, reviewed by @AJPfleger, merged on 2024-09-20
- Image: sector by the sector of the sector by the sector of the sector by the sector
- For feat(util): Add GraphViz helper types (#3635) by @paulgessinger, reviewed by @asalzburger, merged on 2024-09-20

acts-project/acts: PRs merged between 2024-09-10 and 2024-09-24 IV

- ► feat: Allow digitization to save cells (#3626) by @stephenswat, reviewed by @paulgessinger, merged on 2024-09-20
- ► ci: Run clang-tidy on the ActSVG plugin (#3639) by @stephenswat, reviewed by @asalzburger, merged on 2024-09-23

- ► boostimul documents for ACTS core (#3638) by @stephenswat, reviewed by @AJPfleger, merged on 2024-09-23
- ▶ build: Update traccc to v0.16.0 (#3634) by @stephenswat, ∑ reviewed by @asalzburger, merged on 2024-09-23
- For refactor!: Fuse 'Actor' and 'Aborter' (#3573) by @andiwand, reviewed by @paulgessinger, merged on 2024-09-24

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SensitiveSurface (#3592)

by @Berggren-Jonas, 🏹 reviewed by @dimitra97, updated on 2024-09-24

- refactor: Remove MPL library (#3642) by @stephenswat, reviewed by @andiwand, updated on 2024-09-24
- Chore: update ACTSVG version (#3643) by @asalzburger, V reviewed by @niermann999, updated on 2024-09-24
- ▶ î refactor!: Return all track states from Core CKF (#3391) by @andiwand, ☑ comment by @andiwand, updated on 2024-09-24
- fix: kf+gsf: correct hole-tagging for edge case (#3637) by @AJPfleger, comment by @andiwand, updated on 2024-09-24
- feat: add Detray surface grid converter (#3608) by @asalzburger, V reviewed by @niermann999, updated on 2024-09-24
- feat: Add measurement emplace functions (#3627) by @stephenswat, i comment by @stephenswat, updated on 2024-09-23

acts-project/acts: Open PRs II

- Stale ci: Reenable some ExaTrkX tests (#3395) by @benjaminhuth, no reviewer, updated on 2024-09-21
- Stale fix: Require TBB to be found by cmake (#3507) by @benjaminhuth, V reviewed by @timadye, updated on 2024-09-21
- feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432) by @CarloVarni, no reviewer, updated on 2024-09-20
- build: Change CMake settings for traccc deps (#3620) by @stephenswat, comment by @paulgessinger, updated on 2024-09-20
- In refactor: modernise map utils (#3615) by @AJPfleger, comment by @andiwand, updated on 2024-09-20
- Stale feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268) by @Matthewharri, V comment by @Matthewharri, updated on 2024-09-18
- feat: Add a fastjet plugin (#3617) by @gagnonlg, no reviewer, updated on 2024-09-17

In refactor: use 'std::ranges:find', 'find_if', 'find_if_not' (#3614) by @AJPfleger, or comment by @paulgessinger, updated on 2024-09-17

acts-project/acts: Open PRs III

- ► Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, ↑ no reviewer, updated on 2024-09-13
- refactor: set convertMaterial as configurable (#3604) by @galocco, reviewed by @asalzburger, updated on 2024-09-12
- refactor: use 'std::ranges::all_of', 'any_of', 'none_of' (#3593) by @AJPfleger, reviewed by @stephenswat, updated on 2024-09-10
- ▶ î fix!: Use 'ActsScalar' in binning tools (#3482) by @stephenswat, ☑ comment by @stephenswat, updated on 2024-09-10
- ► \$\[\screwty Stale feat: allow bare Surface pointers to be written to JSON (#3493) by @asalzburger, \[\screwty comment by @paulgessinger, updated on 2024-09-07 \]
- ▶ î fix: Further fixes to detray plugin (#3563) by @stephenswat, ✓ reviewed by @andiwand, updated on 2024-09-07
- ► \$\int_Stale feat: traccc plugin (conversion) (#3281) by @fredevb, \$\vee\$ comment by @paulgessinger, updated on 2024-08-31
- ► \$\int_Stale fix: detray plugin (cmake flags, Cl, and compile errors) (#3363) by @fredevb, \$\vee\$ comment by @EleniXoch, updated on 2024-08-31

acts-project/acts: Open PRs IV

- refactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, comment by @Corentin-Allaire, updated on 2024-08-30
- 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
- Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth,review requestedreview requested, updated on 2024-08-21
- Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-08-15
- Stale feat: introduction obj simhit writer (#3180) by @asalzburger, no reviewer, updated on 2024-06-15

fix: TrackSelector remove broken m_noEtaCuts (#3640) by @timadye, V comment by @timadye, updated on 2024-09-24

acts-project/acts: Open PRs V

- Image: WIP perf: Use MBF smoother by default in 'TrackHelpers' in Examples track finding (#3582) by @andiwand, image: updated on 2024-09-24
- Similar WIP refactor!: Clean track EDM projector (#3605) by @andiwand, no reviewer, updated on 2024-09-24
- Image: WIP ci: Download dependencies as tarball (#3520) by @paulgessinger, no reviewer, updated on 2024-09-24
- Image: WIP refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger,review requested, updated on 2024-09-24
- Stale feat: Add statistics to propagation (#3450) by @andiwand, Comment by @paulgessinger, updated on 2024-09-21
- Stale draft: Gauss vertex seeding with time (#3491) by @CENcII, comment by @andiwand, updated on 2024-09-21
- In WIP feat: Gen 3 portal shells (#3564) by @paulgessinger, no reviewer, updated on 2024-09-20

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- Methods with the structured bindings (#3632)
 by @AJPfleger, X changes requested by @stephenswat, updated on 2024-09-20
- ► ↑ WIP refactor: reduce complexity of highly nested blocks (#3633) by @AJPfleger, ✓ comment by @andiwand, updated on 2024-09-20
- Stale chore: Bump minimum boost version to 1.78.0 (#3517) by @paulgessinger, no reviewer, updated on 2024-09-19
- Image: WIP chore: update license header (#3623) by @AJPfleger, in or reviewer, updated on 2024-09-17
- Image: WIP refactor(material)!: update slabs from 'float' to 'double' (#3609) by @AJPfleger, no reviewer, updated on 2024-09-12
- Stale refactor: Rework detector handling in Examples (#3498) by @andiwand, no reviewer, updated on 2024-09-07
- Image: WIP feat: Allow volume constrain for propagation (#3470) by @andiwand, no reviewer, updated on 2024-09-06

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- Image: WIP refactor!: Decouple navigation and stepping (#3449) by @andiwand, no reviewer, updated on 2024-09-06
- Similar WIP feat: detray plugin surface grids (#3429) by @EleniXoch, or comment by @EleniXoch, updated on 2024-09-04
- feat: GeoModel plugin changes for ITk building. (#3519) by @benjaminhuth, a comment by @paulgessinger, updated on 2024-09-03
- Stale feat(geometry): Allow operator« on surfaces without detector elements (#3467) by @paulgessinger, comment by @paulgessinger, updated on 2024-08-31
- Image: WIP refactor: Detector Element refactoring proposal (#3574) by @benjaminhuth, image: comment by @asalzburger, updated on 2024-08-29
- feat: Adding efficiency vs production radius to output root files (#3539) by @AichaMattouhi, adding comment by @paulgessinger, updated on 2024-08-29

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- Stale feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414) by @pbutti, no reviewer, updated on 2024-08-22
- Stale refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, no reviewer, updated on 2024-08-17
- Stale refactor: Move config files from ODD to Acts to ensure compatibility (#3407) by @benjaminhuth, no reviewer, updated on 2024-08-17
- Stale build: physmon for traccc chains (host and cuda) (#3403) by @fredevb, no reviewer, updated on 2024-08-16
- Stale feat: traccc cuda example (#3372) by @fredevb, no reviewer, updated on 2024-08-16
- Stale refactor: Some internal GSF refactorings (#2697)
 by @benjaminhuth, X changes requested by @andiwand, updated on 2024-07-21

acts-project/acts: Open PRs IX

Stale feat: Add per event timing (#3124) by @CouthuresJeremy, V comment by @andiwand, updated on 2024-07-11

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 2024-09-10 |

- Common shared measurement computation? (#3618) by @gagnonlg, updated on 2024-09-17
- ▶ Bug: Example Framework does not compile in an environment without TBB (#3610) by @tomeichlersmith, updated on 2024-09-13

acts-project/acts: New stale Issues / PRs since 2024-09-10 $\,$ I

- Stale 'common' CMake preset requires ccache (#3537) by @stephenswat, updated on 2024-09-21
- Stale Proposal: surface and portal navigation (including target surfaces) for Gen3 (#3526) by @asalzburger, updated on 2024-09-21
- Stale chore: Bump minimum boost version to 1.78.0 (#3517) by @paulgessinger, A no reviewer, updated on 2024-09-19
- Stale fix: Require TBB to be found by cmake (#3507) by @benjaminhuth, no reviewer, updated on 2024-09-21
- ► Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, ↑ no reviewer, updated on 2024-09-13
- Stale draft: Gauss vertex seeding with time (#3491) by @CENcll, no reviewer, updated on 2024-09-21
- Stale feat: Add statistics to propagation (#3450) by @andiwand, no reviewer, updated on 2024-09-21

acts-project/acts: New stale Issues / PRs since 2024-09-10 II

- Stale ci: Reenable some ExaTrkX tests (#3395) by @benjaminhuth, no reviewer, updated on 2024-09-21
- Stale feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268) by @Matthewharri, no reviewer, updated on 2024-09-18
- Stale FPE: RootTrajectoryStatesWriter (#2348) by @paulgessinger, updated on 2024-09-15

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- Stale ci: Reenable some ExaTrkX tests (#3395) by @benjaminhuth, no reviewer, updated on 2024-09-21
- Stale feat: Add statistics to propagation (#3450) by @andiwand, <u>no reviewer</u>, updated on 2024-09-21
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Stale chore: Bump minimum boost version to 1.78.0 (#3517) by @paulgessinger, no reviewer, updated on 2024-09-19

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

- Stale feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268) by @Matthewharri, no reviewer, updated on 2024-09-18
- Stale FPE: RootTrajectoryStatesWriter (#2348) by @paulgessinger, updated on 2024-09-15
- ► \$\int_Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, ↑ no reviewer, updated on 2024-09-13
- Stale refactor: Rework detector handling in Examples (#3498) by @andiwand, no reviewer, updated on 2024-09-07
- Stale feat: allow bare Surface pointers to be written to JSON (#3493) by @asalzburger, no reviewer, updated on 2024-09-07
- Stale 'GlobalChiSquareFitter' produces parameters in wrong volume (#3444) by @andiwand, updated on 2024-09-05
- Stale Bug: _acts_dfelibs_version unset in CMakeLists.txt (#3457) by @wdconinc, updated on 2024-09-05

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- Stale feat: traccc plugin (conversion) (#3281) by @fredevb, no reviewer, updated on 2024-08-31
- Stale fix: detray plugin (cmake flags, Cl, and compile errors) (#3363) by @fredevb, no reviewer, updated on 2024-08-31
- Stale feat(geometry): Allow operator« on surfaces without detector elements (#3467) by @paulgessinger, no reviewer, updated on 2024-08-31
- Stale feat!: (fix + chore) streamline nSegments usage (#3419) by @asalzburger, 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
- Stale feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414)
 by @pbutti, no reviewer, updated on 2024-08-22
- Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, no reviewer, updated on 2024-08-21

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

- Stale refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, no reviewer, updated on 2024-08-17
- Stale refactor: Move config files from ODD to Acts to ensure compatibility (#3407) by @benjaminhuth, no reviewer, updated on 2024-08-17
- Stale build: physmon for traccc chains (host and cuda) (#3403) by @fredevb, <u>no reviewer</u>, updated on 2024-08-16
- Stale feat: traccc cuda example (#3372) 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
- ▶ ↑ WIP Stale refactor: Some internal GSF refactorings (#2697) by @benjaminhuth, ↑ no reviewer, updated on 2024-07-21

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- ► ↑ WIP Stale feat: Add per event timing (#3124) by @CouthuresJeremy, ↑ no reviewer, updated on 2024-07-11
- Stale Project build flags are difficult to control (2024.05.29.) (#3231) by @krasznaa, updated on 2024-07-04
- 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 Reproducibility test using hash checks for non-linear KF (#1246) by @paulgessinger, updated on 2024-06-25
- 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

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- Stale Create volume restricted BFieldMap (#1659) by @asalzburger, updated on 2024-06-25
- Stale Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON (#1818) by @DraTeots, updated on 2024-06-25
- Stale LCG compatibility (#2054) by @paulgessinger, 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
- Stale Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in' (#2216) by @andiwand, updated on 2024-06-25
- Stale Bug: not all tracks have fittedMomentum (#2364) by @felix-russo, updated on 2024-06-25
- Stale Bug: AMVF 'deleteLastVertex' might be wrong (#2380) 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
- 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
- Stale bug: KF verbosity statement (#3097) by @osbornjd, updated on 2024-06-20
- ► \$\int 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

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- Stale Detailed timing per event (#1700) by @CouthuresJeremy, updated on 2024-05-25
- Stale feat: Add GSF component momentum cut to stabilize fit (#2661) 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 Write Fatras documentation (#2796) by @andiwand, 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
- Stale Bug: material map auto tuning only considers the "Default" mapping type (#2942) by @plariono, updated on 2024-05-17

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- 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
- Stale HepMC plugin looks incomplete (#3050) by @andiwand, updated on 2024-04-26
- 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 Fitters use 'PropagatorPlainOptions' and not 'PropagatorOptions' (#2862) by @andiwand, updated on 2024-02-09

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- 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 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

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- 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
- 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

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- Stale FPE: Bethe-Heithler gamma_distribution (#2346) by @paulgessinger, updated on 2023-09-03
- 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 MultiTrajectory buffer default constructible (#2154) by @tboldagh, updated on 2023-07-20
- 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

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- Stale Different results for full_chain_itk when running locally vs lxplus (#1819) by @CarloVarni, updated on 2023-05-09
- 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 Estimate Track Parameters from Seeds use only one surface. What about strips? (#1895) by @CarloVarni, updated on 2023-05-09
- Stale Bug: Unpredicatable navigation in layer with overlapping surface (#1852) by @Corentin-Allaire, updated on 2023-03-25
- Stale Make central minimum track momentum threshold (#1761) by @paulgessinger, updated on 2023-01-21

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- Stale Optimal seeding parameters for a detector (#1699) by @CouthuresJeremy, updated on 2023-01-05
- Stale Particle smearing assertion with Geant4 (#1603) by @benjaminhuth, updated on 2022-12-21
- 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
- Stale Documentation update: Plugins (#1421) by @paulgessinger, updated on 2022-10-22
- Stale Vertexing produces vertex candidates that are unreasonable (#1361) by @paulgessinger, updated on 2022-10-22
- 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 acts-project/acts: All stale Issues / PRs XV

- 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 @osbornjd, 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
- Stale Tracking for TPC/DC without surfaces (#165) by @FabianKlimpel, updated on 2021-11-04

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 Stale BoundingBox tests fail on double precision (#752) by @paulgessinger, updated on 2021-11-04