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August 13, 2024



acts-project/acts: PRs merged between 2024-08-06 and 2024-08-13 |
















- ▶  **build: Improve tracc dependency loading (#3478)**
by @stephenswat,  reviewed by @andiwand, merged on 2024-08-06
- ▶  **feat: Decouple SurfaceAccessor from source link implementations (#3445)**
by @ssdetlab,  reviewed by @andiwand, merged on 2024-08-06
- ▶  **fix: Really handle holes after measurement selection in Core CKF (#3474)**
by @andiwand,  reviewed by @goetzgaycken, merged on 2024-08-07
- ▶  **refactor: Split 'GainMatrixUpdater' compilation (#3486)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-08-07
- ▶  **ci: Fix 'build_performance' GitHub CI job after #3135 (#3487)**
by @andiwand,  reviewed by @paulgessinger, merged on 2024-08-07
- ▶  **feat(util): Grid type-erased output and comparisons (#3469)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2024-08-07
- ▶  **perf: Optimize SourceLink creation, track state assignment (#3466)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-08-07
- ▶  **refactor(geometry): Surface merging returns ordering (#3468)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-08-08

acts-project/acts: PRs merged between 2024-08-06 and 2024-08-13 II
















- ▶  **refactor: Remove dfelibs from dependencies (#3489)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-08-08
- ▶  **ci: Rework physmon chains (#3460)**
by @andiwand,  reviewed by @paulgessinger, merged on 2024-08-08
- ▶  **feat: Variable size measurement for Examples (#3107)**
by @andiwand,  reviewed by @paulgessinger, merged on 2024-08-08
- ▶  **ci: Use pre-commit for CI lint (#3464)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-08-08
- ▶  **feat: change propagation algorithm to particle gun input (#3462)**
by @asalzburger,  reviewed by @andiwand, merged on 2024-08-09
- ▶  **chore: Bump clang-format to v18.1.8 (#3496)**
by @paulgessinger,  reviewed by @stephenswat, merged on 2024-08-09
- ▶  **fix: Minor fixes to detrax and tracc plugins (#3483)**
by @stephenswat,  reviewed by @andiwand, merged on 2024-08-09
- ▶  **refactor: change the definition of the rotation parameters (#2021)**
by @XiaocongAi,  reviewed by @paulgessinger, merged on 2024-08-12

acts-project/acts: PRs merged between 2024-08-06 and 2024-08-13 III

















- ▶  **feat(geometry): 'RegularSurface' gets direction-less 'isOnSurface'** (#3500)
by @paulgessinger,  reviewed by @benjaminhuth, merged on 2024-08-12

- ▶  **refactor: Split 'KalmanVertexUpdater' by dimension (#3503)**
by @paulgessinger,  reviewed by @benjaminhuth, updated on 2024-08-13
- ▶  **ci: bump histcmp to 0.6.7 to try to fix yerr issue (#3504)**
by @paulgessinger, review requested, updated on 2024-08-13
- ▶  **chore: Add cmake-format to pre-commit (#3497)**
by @paulgessinger,  comment by @paulgessinger, updated on 2024-08-13
- ▶  **feat: Hashing seeding algorithm (#3148)**
by @CouthuresJeremy,  comment by @CouthuresJeremy, updated on 2024-08-12
- ▶  **fix: Ensure ODD cleanup if sequencer stops in Examples Python tests (#3471)**
by @andiwand,  comment by @andiwand, updated on 2024-08-11
- ▶  **Stale refactor: Move MLAmbiguitySolver to Core (#3272)**
by @Corentin-Allaire,  **no reviewer**, updated on 2024-08-10
- ▶  **refactor!: SourceLink setting only via rvalue reference (#3488)**
by @paulgessinger,  **no reviewer**, updated on 2024-08-09
- ▶  **fix: make material validity checks and construction explicit (#3494)**
by @AJPfleger,  comment by @AJPfleger, updated on 2024-08-09
















acts-project/acts: Open PRs II

- ▶  **feat: Max chi2 for outlier for Core 'MeasurementSelector'** (#3475)
by @andiwand,  comment by @andiwand, updated on 2024-08-09
- ▶  **fix!: Use 'ActsScalar' in binning tools** (#3482)
by @stephenswat,  comment by @stephenswat, updated on 2024-08-09
- ▶  **refactor: Add C++20 navigator and stepper concepts** (#3492)
by @stephenswat,  reviewed by @paulgessinger, updated on 2024-08-08
- ▶  **feat: allow bare Surface pointers to be written to JSON** (#3493)
by @asalzburger,  comment by @paulgessinger, updated on 2024-08-08
- ▶  **feat: Telescope style seeding** (#3300)
by @ssdetlab,  comment by @ssdetlab, updated on 2024-08-07
- ▶  **refactor: Bump min json ver, make json keys static** (#2968)
by @paulgessinger, review requested, updated on 2024-08-07
- ▶  **refactor: Change track parameter concepts to C++20** (#3485)
by @stephenswat,  reviewed by @andiwand, updated on 2024-08-06
- ▶  **refactor: Remove uses of 'std::enable_if'** (#3484)
by @stephenswat,  comment by @paulgessinger, updated on 2024-08-06















acts-project/acts: Open PRs III

- ▶  **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268)**
by @Matthewharri,  comment by @Matthewharri, updated on 2024-08-06
- ▶  **ci: Enable tracc and friends in CI builds (#3480)**
by @stephenswat,  **no reviewer**, updated on 2024-08-06
- ▶  **feat: Add covfie magnetic field plugin (#3479)**
by @stephenswat,  **no reviewer**, updated on 2024-08-06
- ▶  **feat: Separate external and measurement surfaces (#3454)**
by @ssdetlab,  comment by @andiwand, updated on 2024-08-03
- ▶  **refactor: path handling to use 'std::filesystem' (#3308)**
by @AJPfleger,  changes requested by @stephenswat, updated on 2024-08-02
- ▶  **feat: tracc plugin (conversion) (#3281)**
by @fredevb,  comment by @paulgessinger, updated on 2024-08-01
- ▶  **fix: detray plugin (cmake flags, CI, and compile errors) (#3363)**
by @fredevb,  comment by @EleniXoch, updated on 2024-08-01
- ▶  **feat: covfie plugin (#3117)**
by @fredevb,  comment by @paulgessinger, updated on 2024-08-01



















acts-project/acts: Open PRs IV

- ▶  **refactor: Accelerating the Hough Transform (#3461)**
by @dimitra97,  comment by @goblirsc, updated on 2024-08-01
- ▶  **feat!: (fix + chore) streamline nSegments usage (#3419)**
by @asalzburger,  comment by @asalzburger, updated on 2024-07-29
- ▶  **Stale fix: update the DD4hep requirements when the ODD is built (#3330)**
by @Corentin-Allaire,  comment by @Corentin-Allaire, updated on 2024-07-28
- ▶  **feat: speed up detector navigator (#3435)**
by @asalzburger,  reviewed by @andiwand, updated on 2024-07-25
- ▶  **feat!: Track-EDM like implementation for the space points, to be used in the seeding (#3432)**
by @CarloVarni,  **no reviewer**, updated on 2024-07-24
- ▶  **feat: Introduce the usage of the geomodel converters for the Muon System (#3348)**
by @dimitra97,  comment by @dimitra97, updated on 2024-07-24
- ▶  **ci: Reenable some ExaTrkX tests (#3395)**
by @benjaminhuth,  **no reviewer**, updated on 2024-07-23
- ▶  **refactor: Lift GenericDetector to a Plugin (#3425)**
by @benjaminhuth, review requestedreview requested, updated on 2024-07-22



















acts-project/acts: Open PRs V

- ▶  Stale **style: Update clang-format to v18 (#3319)**
by @stephenswat,  **no reviewer**, updated on 2024-07-21
- ▶  **feat: tracc chain in examples (common chain logic and CPU chain) (#3320)**
by @fredevb,  **no reviewer**, updated on 2024-07-16
- ▶  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 @Alonl14,  **no reviewer**, updated on 2024-07-06
- ▶  Stale **feat: introduction obj simhit writer (#3180)**
by @asalzburger,  **no reviewer**, updated on 2024-06-15
- ▶  WIP **chore: Bump minimum GeoModel version to 6.3.0 (#3476)**
by @andiwand,  comment by @andiwand, updated on 2024-08-13
- ▶  WIP **feat(gx2f): material effects - multiple scattering (#3292)**
by @AJPfleger,  **no reviewer**, updated on 2024-08-13






















acts-project/acts: Open PRs VI

- ▶   **WIP feat: Gen3 geometry Portals (#3501)**
by @paulgessinger,  **no reviewer**, updated on 2024-08-12
- ▶   **WIP fix(gx2f): use all states for 'jacobianFromStart' (#3274)**
by @AJPflegler,  **no reviewer**, updated on 2024-08-11
- ▶   **WIP fix: Return 'nullptr' if outside tracking geometry in 'TrackingGeometry::lowestTrackingVolume' (#3481)**
by @andiwand,  comment by @andiwand, updated on 2024-08-09
- ▶   **WIP chore: Update compiler warning flags (#3495)**
by @paulgessinger,  reviewed by @stephenswat, updated on 2024-08-09
- ▶   **WIP refactor: Rework detector handling in Examples (#3498)**
by @andiwand,  **no reviewer**, updated on 2024-08-08
- ▶   **WIP refactor: Return all track states from Core CKF (#3391)**
by @andiwand,  **no reviewer**, updated on 2024-08-08



















acts-project/acts: Open PRs VII

- ▶   **feat: GeoModelDetectorObjectFactory for flexible conversion of GeoModel objects to Acts Surfaces and Volumes (#3499)**
by @Berggren-Jonas,  **no reviewer**, updated on 2024-08-08
- ▶   **feat: Allow volume constrain for propagation (#3470)**
by @andiwand,  **no reviewer**, updated on 2024-08-08
- ▶   **feat: Renavigation for Gen1 (#3437)**
by @andiwand,  **no reviewer**, updated on 2024-08-08
- ▶   **refactor: Remove target volume estimation from 'Navigator' (#3242)**
by @andiwand,  **no reviewer**, updated on 2024-08-07
- ▶   **refactor!: Template algorithms on track container frontend 'TrackContainer' (#3193)**
by @andiwand,  comment by @andiwand, updated on 2024-08-07
- ▶   **draft: Gauss vertex seeding with time (#3491)**
by @CENcll,  **no reviewer**, updated on 2024-08-07






















acts-project/acts: Open PRs VIII





- ▶   **refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238)**
by @andiwand,  comment by @noemina, updated on 2024-08-06
- ▶   **test: Check if we end up in the expected volume in Gen1 'Navigator' (#3442)**
by @andiwand,  **no reviewer**, updated on 2024-08-06
- ▶   **feat: Add statistics to propagation (#3450)**
by @andiwand,  comment by @paulgessinger, updated on 2024-08-05
- ▶   **feat(geometry): Allow operator« on surfaces without detector elements (#3467)**
by @paulgessinger,  comment by @paulgessinger, updated on 2024-08-01
- ▶   **refactor: Rework projector (#3453)**
by @andiwand,  comment by @paulgessinger, updated on 2024-08-01
- ▶   **refactor: Generalize propagation validation in Examples (#3434)**
by @andiwand,  changes requested by @asalzburger, updated on 2024-07-31
- ▶   **example of LRT (#3446)**
by @AichaMattouhi,  comment by @delitez, updated on 2024-07-31


acts-project/acts: Open PRs IX

- ▶   **perf: Drop 'stateBuffer' from Core CKF (#3458)**
by @andiwand,  **no reviewer**, updated on 2024-07-31
- ▶   **feat: Build ITk with Gen1 geometry and geomodel (#3448)**
by @benjaminhuth,  comment by @benjaminhuth, updated on 2024-07-30
- ▶   **refactor!: Decouple navigation and stepping (#3449)**
by @andiwand,  **no reviewer**, updated on 2024-07-28
- ▶   **feat: detray plugin surface grids (#3429)**
by @EleniXoch,  **no reviewer**, updated on 2024-07-23
- ▶   **feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414)**
by @pbutti,  **no reviewer**, updated on 2024-07-23
- ▶   **refactor: add geohook for fast digitization range selection to itk example (#2089)**
by @niermann999,  **no reviewer**, updated on 2024-07-23

acts-project/acts: Open PRs X
















- ▶   **WIP** Stale **refactor!: Surface returns transform by value (#2527)**
by @asalzburger,  **no reviewer**, updated on 2024-07-22
- ▶   **WIP** Stale **refactor: Some internal GSF refactorings (#2697)**
by @benjaminhuth,  changes requested by @andiwand, updated on 2024-07-21
- ▶   **WIP** **refactor: Move config files from ODD to Acts to ensure compatibility (#3407)**
by @benjaminhuth,  **no reviewer**, updated on 2024-07-18
- ▶   **WIP** **refactor: Rework physics performance monitoring for Examples (#3359)**
by @andiwand,  **no reviewer**, updated on 2024-07-18
- ▶   **WIP** **build: physmon for tracc chains (host and cuda) (#3403)**
by @fredevb,  **no reviewer**, updated on 2024-07-17
- ▶   **WIP** **feat: tracc cuda example (#3372)**
by @fredevb,  **no reviewer**, updated on 2024-07-17
- ▶   **WIP** Stale **feat: Add per event timing (#3124)**
by @CouthuresJeremy,  comment by @andiwand, updated on 2024-07-11

- ▶   **WIP**  **Stale** **feat: Add GSF component momentum cut to stabilize fit (#2661)**
by @benjaminhuth,  comment by @benjaminhuth, updated on 2024-05-25













- ▶  **Gen3 geometry (#3502)**
by @paulgessinger, updated on 2024-08-09

- ▶  **Stale** refactor: Move MLAmbiguitySolver to Core (#3272)
by @Corentin-Allaire,  **no reviewer**, updated on 2024-08-10









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- ▶  **Stale refactor: Move MLAmbiguitySolver to Core (#3272)**
by @Corentin-Allaire,  **no reviewer**, updated on 2024-08-10
- ▶  **Stale fix: update the DD4hep requirements when the ODD is built (#3330)**
by @Corentin-Allaire,  **no reviewer**, updated on 2024-07-28
- ▶  **Stale Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment (#1778)**
by @tboldagh, updated on 2024-07-24
- ▶   **Stale refactor!: Surface returns transform by value (#2527)**
by @asalzburger,  **no reviewer**, updated on 2024-07-22
- ▶   **Stale refactor: Some internal GSF refactorings (#2697)**
by @benjaminhuth,  **no reviewer**, updated on 2024-07-21
- ▶  **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

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











- ▶   **WIP**  **feat: Add per event timing (#3124)**
by @CouthuresJeremy,  **no reviewer**, updated on 2024-07-11
- ▶  **feat: Geometry agnostic space point maker (#2890)**
by @Alonl14,  **no reviewer**, updated on 2024-07-06
- ▶  **Project build flags are difficult to control (2024.05.29.) (#3231)**
by @krasznaa, updated on 2024-07-04
- ▶  **[bug] Off axis endcap with dd4hep plugin. (#942)**
by @whit2333, updated on 2024-06-26
- ▶  **Debug Information in Acts Seeder (#944)**
by @osbornjd, updated on 2024-06-26
- ▶  **Reproducibility test using hash checks for non-linear KF (#1246)**
by @paulgessinger, updated on 2024-06-25
- ▶  **Documentation update: Core (#1418)**
by @paulgessinger, updated on 2024-06-25
- ▶  **Documentation: hints for debugging (#1463)**
by @timadye, updated on 2024-06-25

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









- ▶  **Stale Add Primary Vertex Label to tracks (#1544)**
by @Lucas-Borgna, updated on 2024-06-25
- ▶  **Stale Create volume restricted BFieldMap (#1659)**
by @asalzburger, updated on 2024-06-25
- ▶  **Stale Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON (#1818)**
by @DraTeets, 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
- ▶  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
- ▶  Stale **feat: introduction obj simhit writer (#3180)**
by @asalzburger,  **no reviewer**, updated on 2024-06-15









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
- ▶  **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
- ▶   **WIP 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

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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 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

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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** **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
- ▶  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: Bethe-Heitler gamma_distribution (#2346)**
by @paulgessinger, updated on 2023-09-03
- ▶  **Stale FPE: GaussianMixtureReduction (#2347)**
by @paulgessinger, updated on 2023-09-03
- ▶  **Stale FPE: RootTrajectoryStatesWriter (#2348)**
by @paulgessinger, updated on 2023-09-03
- ▶  **Stale FPE: RootTrajectorySummaryWriter (#2284)**
by @paulgessinger, updated on 2023-08-12
- ▶  **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






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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 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

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- ▶  **Stale Estimate Track Parameters from Seeds use only one surface. What about strips? (#1895)**
by @CarloVarni, updated on 2023-05-09
- ▶  **Stale Bug: Unpredictable 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
- ▶  **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
- ▶  **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 globally 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
- ▶  **Stale BoundingBox tests fail on double precision (#752)**
by @paulgessinger, updated on 2021-11-04