


## Pull request and issue summary for acts-project/acts















July 2, 2024

## Needs discussion I















- ▶  **TrackAtVertex trackWeight is not being written in IVF (#2149)**  
by @andiwand

During my work on the vertexing I noticed that the 'trackWeight' of 'TrackAtVertex'  
<https://github.com/acts-project/acts/blob/main/Core/include/Acts/Vertexing/TrackAtVertex.hpp#L69>  
default of '1' is never being overwritten in the IVF. Not sure if this is intended but it seems very odd.

















## acts-project/acts: PRs merged between 2024-06-25 and 2024-07-02 |

- ▶  **feat: Wire grid size for 'AMVF' and 'AdaptiveGridSeeder' to Python in Examples (#3329)**  
by @andiwand,  reviewed by @paulgessinger, merged on 2024-06-26
- ▶  **test: use ACTS logging for Navigator tests (#3312)**  
by @AJPfleger,  reviewed by @andiwand, merged on 2024-06-26
- ▶  **build: Change the way coverage is enabled (#3318)**  
by @paulgessinger,  reviewed by @andiwand, merged on 2024-06-28
- ▶  **refactor(geometry): Surface merging uses custom exception (#3334)**  
by @paulgessinger,  reviewed by @andiwand, merged on 2024-06-28
- ▶  **fix(gx2f): compatible with non-Vector-TrackContainer (e.g. in Athena) (#3333)**  
by @AJPfleger,  reviewed by @andiwand, merged on 2024-06-28
- ▶  **refactor(gx2f): change type of Gx2fnUpdateColumn to uint32\_t (athena compatability) (#3336)**  
by @AJPfleger,  reviewed by @andiwand, merged on 2024-06-28
- ▶  **chore: Fix a number of SonarQube reliability issues (#3328)**  
by @paulgessinger,  reviewed by @benjaminhuth, merged on 2024-07-01

















- ▶  **feat: 'Surface::toStream' overload without stream argument (#3335)**  
by @paulgessinger,  reviewed by @benjaminhuth, merged on 2024-07-01
- ▶  **feat: 'VariableSizeSubspace' (#3331)**  
by @andiwand,  reviewed by @paulgessinger, merged on 2024-07-01
- ▶  **build(deps): bump SonarSource/sonarcloud-github-c-cpp from 2 to 3 (#3338)**  
by @dependabot[bot],  reviewed by @paulgessinger, merged on 2024-07-01
- ▶  **fix(vertexing): IterativeVertexFinder config takes const field (#3341)**  
by @paulgessinger,  reviewed by @andiwand, merged on 2024-07-02

- ▶  **build(deps): bump actions/labeler from 4 to 5 (#3291)**  
by @dependabot[bot],  reviewed by @andiwand, updated on 2024-07-02
- ▶  **refactor!: Rewrite 'BoundaryCheck'; Rename to 'BoundaryTolerance' and split out inside checks (#3170)**  
by @andiwand,  comment by @andiwand, updated on 2024-07-02
- ▶  **feat: Detray plugin geometry (#3299)**  
by @EleniXoch,  comment by @EleniXoch, updated on 2024-07-02
- ▶  **refactor!: Use track container in Core 'CKF' and pass track proxies to delegates (#3161)**  
by @andiwand,  comment by @andiwand, updated on 2024-07-02
- ▶  **feat: Silent excessive verbosity of the IVF Algorithm in Examples (#3343)**  
by @pbutti,  reviewed by @andiwand, updated on 2024-07-02
- ▶  **feat: Select space points used to fill the seeding grid via delegate function. Add experimentCuts support (#3342)**  
by @pbutti,  comment by @CarloVarni, updated on 2024-07-02
- ▶  **ci(release): Replace release script with git cliff (#3322)**  
by @paulgessinger,  reviewed by @andiwand, updated on 2024-07-02

















## acts-project/acts: Open PRs II

- ▶  **fix: Unit test hough transform and fix identifier bug (#3332)**  
by @dimitra97,  comment by @andiwand, updated on 2024-07-02
- ▶  **refactor!: BinningValue becomes a strong enum (#3337)**  
by @paulgessinger,  reviewed by @andiwand, updated on 2024-07-02
- ▶  **refactor!: Track EDM brush over (#3192)**  
by @andiwand,  comment by @andiwand, updated on 2024-07-01
- ▶  **feat: GSF Debugger (#2682)**  
by @benjaminhuth,  reviewed by @paulgessinger, updated on 2024-07-01
- ▶  **feat: Convert geoShapes to DetectorVolumes (#3268)**  
by @Matthewharri,  comment by @Matthewharri, updated on 2024-06-28
- ▶  **fix: update the DD4hep requirements when the ODD is built (#3330)**  
by @Corentin-Allaire,  comment by @Corentin-Allaire, updated on 2024-06-28
- ▶  **feat: covfie plugin (#3117)**  
by @fredevb,  comment by @paulgessinger, updated on 2024-06-21
- ▶  **Stale refactor: Use Core CKF extrapolation after inwards extension (#3195)**  
by @andiwand,  **no reviewer**, updated on 2024-06-21

## acts-project/acts: Open PRs III






















- ▶  **feat: tracc chain in examples (common chain logic and CPU chain) (#3320)**  
by @fredevb,  **no reviewer**, updated on 2024-06-21
- ▶  **refactor: change the definition of the rotation parameters (#2021)**  
by @XiaocongAi,  reviewed by @paulgessinger, updated on 2024-06-21
- ▶  **style: Update clang-format to v18 (#3319)**  
by @stephenswat,  **no reviewer**, updated on 2024-06-20
- ▶  **feat: tracc plugin (conversion) (#3281)**  
by @fredevb,  comment by @paulgessinger, updated on 2024-06-20
- ▶  **build, fix: Public Header Relocatability, main branch (2024.06.18.) (#3303)**  
by @krasznaa,  **no reviewer**, updated on 2024-06-18
- ▶  **feat: Telescope style seeding (#3300)**  
by @ssdetlab,  **no reviewer**, updated on 2024-06-17
- ▶  **Stale feat: introduction obj simhit writer (#3180)**  
by @asalzburger,  **no reviewer**, updated on 2024-06-15
- ▶  **feat: Misalignment shift and test check that only selected modules are shifted (#2843)**  
by @LaraCalic,  comment by @paulgessinger, updated on 2024-06-14

## acts-project/acts: Open PRs IV























- ▶  **test: Add option to only build matching unittests (#3233)**  
by @benjaminhuth,  comment by @benjaminhuth, updated on 2024-06-14
- ▶  **refactor: Move MLAmbiguitySolver to Core (#3272)**  
by @Corentin-Allaire,  **no reviewer**, updated on 2024-06-11
- ▶  **refactor!: Seed filter container policy (#3136)**  
by @CouthuresJeremy,  comment by @CouthuresJeremy, updated on 2024-06-10
- ▶  **refactor!: Move 'Navigator' external surfaces into options (#3189)**  
by @andiwand,  **no reviewer**, updated on 2024-06-10
- ▶  **refactor!: Refactor direct navigator initialization (#3183)**  
by @andiwand,  **no reviewer**, updated on 2024-06-08
- ▶  **refactor!: Split propagator options (#3181)**  
by @andiwand,  **no reviewer**, updated on 2024-06-08
- ▶  **refactor!: Refactor navigator options (#3182)**  
by @andiwand,  **no reviewer**, updated on 2024-06-08
- ▶  **feat: Geometry agnostic space point maker (#2890)**  
by @Alonl14,  **no reviewer**, updated on 2024-06-06























## acts-project/acts: Open PRs ▼

- ▶  **refactor: Do not allocate memory if the surface is connected with a detector el... (#3069)**  
by @junggjo9,  comment by @AJPflegler, updated on 2024-06-06
- ▶   **feat: Variable size measurement for Examples (#3107)**  
by @andiwand,  comment by @paulgessinger, updated on 2024-07-02
- ▶   **feat!: Resurrect original 'AdaptiveGridTrackDensity' vs 'SparseGridTrackDensity' (#3340)**  
by @andiwand,  **no reviewer**, updated on 2024-07-02
- ▶   **fix: SonarQube fixes as follow up to #3337 (#3339)**  
by @paulgessinger,  **no reviewer**, updated on 2024-07-01
- ▶   **ci: Add GeoModel Plugin to CI (#3327)**  
by @benjaminhuth,  changes requested by @paulgessinger, updated on 2024-07-01
- ▶    **refactor: Remove target volume estimation from 'Navigator' (#3242)**  
by @andiwand,  **no reviewer**, updated on 2024-07-01
- ▶   **ci: Update CI job to newer OS (drop ubuntu 20.04, centos7/8) (#3227)**  
by @AJPflegler,  comment by @andiwand, updated on 2024-07-01






















## acts-project/acts: Open PRs VI








- ▶   **test: Test field invariance of direction uncertainty transport (#2983)**  
by @andiwand,  **no reviewer**, updated on 2024-06-27
- ▶   **feat: Reverse track finding for Examples (#3200)**  
by @andiwand,  **no reviewer**, updated on 2024-06-27
- ▶   **tmp: Test pixel/strip hole branch stopper in Examples track finding (#3273)**  
by @andiwand,  **no reviewer**, updated on 2024-06-25
- ▶   **feat(gx2f): material effects - multiple scattering (#3292)**  
by @AJPfleger,  **no reviewer**, updated on 2024-06-23
- ▶    **feat!: Space point implementation (#1900)**  
by @CarloVarni,  comment by @paulgessinger, updated on 2024-06-22
- ▶   **refactor: add geohook for fast digitization range selection to itk example (#2089)**  
by @niermann999,  **no reviewer**, updated on 2024-06-22
- ▶   **refactor!: Surface returns transform by value (#2527)**  
by @asalzburger,  **no reviewer**, updated on 2024-06-22










## acts-project/acts: Open PRs VII









- ▶   **feat: Covariance transport for dense propagation (#2869)**  
by @andiwand,  **no reviewer**, updated on 2024-06-21
- ▶   **refactor: Some internal GSF refactorings (#2697)**  
by @benjaminhuth,  changes requested by @andiwand, updated on 2024-06-21
- ▶   **refactor: Bump min json ver, make json keys static (#2968)**  
by @paulgessinger,  **no reviewer**, updated on 2024-06-21
- ▶   **feat: Add CMake presets (#3135)**  
by @andiwand,  **no reviewer**, updated on 2024-06-21
- ▶   **feat: Add Frustum/Octree Navigation (#3306)**  
by @Matthewharri, review requested, review requested, updated on 2024-06-20
- ▶   **refactor: path handling to use 'std::filesystem' (#3308)**  
by @AJPfleger,  changes requested by @stephenswat, updated on 2024-06-19
- ▶   **refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237)**  
by @andiwand,  reviewed by @paulgessinger, updated on 2024-06-14






## acts-project/acts: Open PRs VIII

- ▶   **WIP** Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865)  
by @andiwand,  **no reviewer**, updated on 2024-06-14
- ▶   **WIP** refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238)  
by @andiwand,  reviewed by @benjaminhuth, updated on 2024-06-13
- ▶   **WIP** refactor: Resolve surfaces on initialization in 'Navigator' (#3283)  
by @andiwand,  **no reviewer**, updated on 2024-06-13
- ▶   **WIP** fix(gx2f): use all states for 'jacobianFromStart' (#3274)  
by @AJPfleger,  **no reviewer**, updated on 2024-06-12
- ▶   **WIP** feat: Add per event timing (#3124)  
by @CouthuresJeremy,  comment by @andiwand, updated on 2024-06-11
- ▶   **WIP** feat: Hashing seeding algorithm (#3148)  
by @CouthuresJeremy,  comment by @CouthuresJeremy, updated on 2024-06-11
- ▶   **WIP** feat: geo model detector elements, converters and plugins (#3213)  
by @asalzburger,  comment by @benjaminhuth, updated on 2024-06-11

- ▶   **refactor!: Template on track container frontend 'TrackContainer' (#3193)**  
by @andiwand,  comment by @paulgessinger, updated on 2024-06-05
- ▶    **feat: Add GSF component momentum cut to stabilize fit (#2661)**  
by @benjaminhuth,  comment by @benjaminhuth, updated on 2024-05-25










- ▶   **Stale refactor: Remove target volume estimation from 'Navigator' (#3242)**  
by @andiwand,  **no reviewer**, updated on 2024-07-01
- ▶  **Stale Ensure Fitters use all provided measurements (#2737)**  
by @andiwand, updated on 2024-06-25
- ▶  **Stale Bug: Fatras sets step size to 0 (#2543)**  
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 can't seem to handle energy loss for electrons on thin surfaces (#2498)**  
by @janheinri, updated on 2024-06-25
- ▶  **Stale Bug: AMVF 'deleteLastVertex' might be wrong (#2380)**  
by @andiwand, updated on 2024-06-25
- ▶  **Stale Bug: not all tracks have fittedMomentum (#2364)**  
by @felix-russo, updated on 2024-06-25

- ▶  **Stale** **Missing 'cmake\_minimum\_required' in 'ActsConfig.cmake.in'** (#2216)  
by @andiwand, updated on 2024-06-25
- ▶  **Stale** **Construct tracking geometry from python** (#2173)  
by @andiwand, updated on 2024-06-25
- ▶  **Stale** **TrackAtVertex trackWeight is not being written in IVF** (#2149)  
by @andiwand, updated on 2024-06-25
- ▶  **Stale** **EstimateTrackParamsFromSeed does not use time of measurement** (#2136)  
by @andiwand, updated on 2024-06-25
- ▶  **Stale** **LCG compatibility** (#2054)  
by @paulgessinger, updated on 2024-06-25
- ▶  **Stale** **Cmake error if ACTS\_BUILD\_PLUGIN\_ACTSVG=ON** (#1818)  
by @DraTeets, updated on 2024-06-25
- ▶  **Stale** **Create volume restricted BFieldMap** (#1659)  
by @asalzburger, updated on 2024-06-25
- ▶  **Stale** **Add Primary Vertex Label to tracks** (#1544)  
by @Lucas-Borgna, updated on 2024-06-25









- ▶  **Stale Documentation: hints for debugging (#1463)**  
by @timadye, updated on 2024-06-25
- ▶  **Stale Documentation update: Core (#1418)**  
by @paulgessinger, updated on 2024-06-25
- ▶  **Stale Reproducibility test using hash checks for non-linear KF (#1246)**  
by @paulgessinger, updated on 2024-06-25
- ▶  **Stale Debug Information in Acts Seeder (#944)**  
by @osbornjd, updated on 2024-06-26
- ▶  **Stale [bug] Off axis endcap with dd4hep plugin. (#942)**  
by @whit2333, updated on 2024-06-26













## acts-project/acts: All stale Issues / PRs I

- ▶  **WIP** **Stale refactor: Remove target volume estimation from 'Navigator'** (#3242)  
by @andiwand,  **no reviewer**, updated on 2024-07-01
- ▶  **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
- ▶  **Stale Create volume restricted BFieldMap** (#1659)  
by @asalzburger, updated on 2024-06-25













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

- ▶  **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 TrackAtVertex trackWeight is not being written in IVF (#2149)**  
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









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

- ▶  **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** **feat!: Space point implementation (#1900)**  
by @CarloVarni,  **no reviewer**, updated on 2024-06-22
- ▶  **Stale** **refactor: Use Core CKF extrapolation after inwards extension (#3195)**  
by @andiwand,  **no reviewer**, updated on 2024-06-21
- ▶  **Stale** **bug: KF verbosity statement (#3097)**  
by @osbornjd, updated on 2024-06-20









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

- ▶  **Stale** **feat: introduction obj simhit writer (#3180)**  
by @asalzburger,  **no reviewer**, updated on 2024-06-15
- ▶   **Stale** **refactor: Replace 'EigenStepper' extension list with single extension (#2865)**  
by @andiwand,  **no reviewer**, updated on 2024-06-14
- ▶  **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
- ▶   **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








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

- ▶  **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
- ▶  **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 VI

- ▶  **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
- ▶  **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

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









- ▶  **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 Describe replacements of TrackingGeometry, TrackingVolume etc and how the classes map to one another. (#2786)**  
by @paulgessinger, updated on 2024-01-10
- ▶  **Stale Describe how the legacy geometry used to work and how it differs from the layerless geometry (#2787)**  
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

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









- ▶  **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 @asalzbürger, updated on 2023-09-27
- ▶  **Stale FPE: Bethe-Heitler gamma\_distribution (#2346)**  
by @paulgessinger, updated on 2023-09-03











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

- ▶  **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
- ▶  **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









## acts-project/acts: All stale Issues / PRs X







- ▶  **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 Ixplus (#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: Unpredictable navigation in layer with overlapping surface (#1852)**  
by @Corentin-Allaire, updated on 2023-03-25

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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 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

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- ▶  **Stale Full chain vertexing with AMVF (#1406)**  
by @paulgessinger, updated on 2022-10-01
- ▶  **Stale Vertexing produces unexpectedly poor efficiency (#1362)**  
by @paulgessinger, updated on 2022-09-20
- ▶  **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 Vertexing issues observed in python vertexing example (#1091)**  
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 Add example (+test) for vertex fitting with constraints** (#1100)  
by @paulgessinger, updated on 2022-01-07
- ▶  **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