


Pull request and issue summary for acts-project/acts

















July 9, 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 2024-07-02 and 2024-07-09 |

- ▶  **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, merged on 2024-07-02
- ▶  **ci(release): Replace release script with git cliff (#3322)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-07-03
- ▶  **feat: GSF Debugger (#2682)**
by @benjaminhuth,  reviewed by @paulgessinger, merged on 2024-07-03
- ▶  **fix: Unit test hough transform and fix identifier bug (#3332)**
by @dimitra97,  reviewed by @andiwand, merged on 2024-07-03
- ▶  **ci: Bump histcmp to v0.6.6 (#3347)**
by @paulgessinger,  reviewed by @stephenswat, merged on 2024-07-03
- ▶  **refactor!: BinningValue becomes a strong enum (#3337)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-07-03
- ▶  **refactor: Do not allocate memory if the surface is connected with a detector el... (#3069)**
by @junggjo9,  reviewed by @andiwand, merged on 2024-07-03

















acts-project/acts: PRs merged between 2024-07-02 and 2024-07-09 II

- ▶  **build: Public Header Relocatability, main branch (2024.06.18.) (#3303)**
by @krasznaa,  reviewed by @paulgessinger, merged on 2024-07-03
- ▶  **refactor: cleaning the code for filling cylindrical grid (#3344)**
by @CarloVarni,  reviewed by @andiwand, merged on 2024-07-04
- ▶  **feat: Silence excessive verbosity of the IVF Algorithm in Examples (#3343)**
by @pbutti,  reviewed by @paulgessinger, merged on 2024-07-04
- ▶  **feat: Detray plugin geometry (#3299)**
by @EleniXoch,  reviewed by @asalzburger, merged on 2024-07-04
- ▶  **fix: fixing macOS (arm64) build by including ostream (#3350)**
by @asalzburger,  reviewed by @andiwand, merged on 2024-07-05
- ▶  **ci: Update CI job to newer OS (drop ubuntu 20.04, centos7/8) (#3227)**
by @AJPfleger,  reviewed by @benjaminhuth, merged on 2024-07-05
- ▶  **fix: GeoModel plugin (#3351)**
by @asalzburger,  reviewed by @benjaminhuth, merged on 2024-07-05
- ▶  **refactor!: Rewrite 'BoundaryCheck'; Rename to 'BoundaryTolerance' and split out inside checks (#3170)**
by @andiwand,  reviewed by @paulgessinger, merged on 2024-07-06















- ▶  **fix: Re-enable Exa.TrkX build without CUDA, make configuration explicit (#3353)**
by @benjaminhuth,  reviewed by @paulgessinger, merged on 2024-07-08
- ▶  **ci: Switch macOS build to use CMake-based dependencies (#3346)**
by @paulgessinger,  reviewed by @benjaminhuth, merged on 2024-07-08
- ▶  **feat: Add 'nCleanVtx' to 'VertexPerformanceWriter' in Examples (#3352)**
by @andiwand,  reviewed by @benjaminhuth, merged on 2024-07-09

- ▶  **feat: Prototracks-to-Tracks converter & refactor (#3357)**
by @benjaminhuth,  reviewed by @andiwand, updated on 2024-07-09
- ▶  **feat: covfie plugin (#3117)**
by @fredevb,  comment by @paulgessinger, updated on 2024-07-09
- ▶  **refactor!: Use track container in Core 'CKF' and pass track proxies to delegates (#3161)**
by @andiwand,  comment by @andiwand, updated on 2024-07-09
- ▶  **feat: Hashing seeding algorithm (#3148)**
by @CouthuresJeremy,  comment by @CouthuresJeremy, updated on 2024-07-09
- ▶  **refactor!: Split propagator options (#3181)**
by @andiwand,  **no reviewer**, updated on 2024-07-09
- ▶  **refactor: Truth graph metrics for Exa.TrkX with separate algorithm (#3354)**
by @benjaminhuth,  changes requested by @andiwand, updated on 2024-07-09
- ▶  **feat: Select space points used to fill the seeding grid via delegate function. Add experimentCuts support (#3342)**
by @pbutti,  reviewed by @andiwand, updated on 2024-07-09

















acts-project/acts: Open PRs II




















- ▶  **refactor: Cluster features for GNN pipeline (#3356)**
by @benjaminhuth,  reviewed by @andiwand, updated on 2024-07-09
- ▶  **refactor!: Track EDM brush over (#3192)**
by @andiwand,  comment by @andiwand, updated on 2024-07-09
- ▶  **feat: Introduce the usage of the geomodel converters for the Muon System (#3348)**
by @dimitra97,  comment by @dimitra97, updated on 2024-07-09
- ▶  **ci: Re-enable the Examples unit tests in the CI (#3355)**
by @paulgessinger,  **no reviewer**, updated on 2024-07-09
- ▶  **refactor!: Refactor navigator options (#3182)**
by @andiwand,  **no reviewer**, updated on 2024-07-08
- ▶  **refactor!: Refactor direct navigator initialization (#3183)**
by @andiwand,  **no reviewer**, updated on 2024-07-08
- ▶  **build: Bump minimum required C++ standard to 20 (#3345)**
by @paulgessinger,  **no reviewer**, updated on 2024-07-08
- ▶  **Stale** **feat: Geometry agnostic space point maker (#2890)**
by @Alonl14,  **no reviewer**, updated on 2024-07-06

acts-project/acts: Open PRs III























- ▶  **feat: Telescope style seeding (#3300)**
by @ssdetlab,  **no reviewer**, updated on 2024-07-06
- ▶  **feat!: Resurrect original 'AdaptiveGridTrackDensity'; Move new impl to 'SparseGridTrackDensity' (#3340)**
by @andiwand,  **no reviewer**, updated on 2024-07-06
- ▶  **ci: Add GeoModel Plugin to CI (#3327)**
by @benjaminhuth,  changes requested by @paulgessinger, updated on 2024-07-06
- ▶  **refactor: Make the MagneticFieldContext & GeometryContext to be hard types (#3349)**
by @junggjo9,  changes requested by @andiwand, updated on 2024-07-06
- ▶  **refactor: path handling to use 'std::filesystem' (#3308)**
by @AJPfleger,  changes requested by @stephenswat, updated on 2024-07-06
- ▶  **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268)**
by @Matthewharri,  comment by @Matthewharri, updated on 2024-07-04
- ▶  **fix: update the DD4hep requirements when the ODD is built (#3330)**
by @Corentin-Allaire,  comment by @Corentin-Allaire, updated on 2024-06-28

acts-project/acts: Open PRs IV





















- ▶  **Stale refactor: Use Core CKF extrapolation after inwards extension (#3195)**
by @andiwand,  **no reviewer**, updated on 2024-06-21
- ▶  **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
- ▶  **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
- ▶  **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: Rework physics performance monitoring for Examples (#3359)**
by @andiwand,  **no reviewer**, updated on 2024-07-09
- ▶   **feat: Improve Athena Dump reader (#3358)**
by @benjaminhuth,  comment by @benjaminhuth, updated on 2024-07-09
- ▶    **refactor!: Template on track container frontend 'TrackContainer' (#3193)**
by @andiwand,  comment by @paulgessinger, updated on 2024-07-05
- ▶   **feat!: Space point implementation (#1900)**
by @CarloVarni,  comment by @paulgessinger, updated on 2024-07-04






















acts-project/acts: Open PRs VI





- ▶   **feat: Variable size measurement for Examples (#3107)**
by @andiwand,  comment by @paulgessinger, updated on 2024-07-02
- ▶   **fix: SonarQube fixes as follow up to #3337 (#3339)**
by @paulgessinger,  **no reviewer**, updated on 2024-07-01
- ▶    **refactor: Remove target volume estimation from 'Navigator' (#3242)**
by @andiwand,  **no reviewer**, updated on 2024-07-01
- ▶   **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







acts-project/acts: Open PRs VII

- ▶   **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 @asalzbürger,  **no reviewer**, updated on 2024-06-22
- ▶   **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













acts-project/acts: Open PRs VIII

- ▶   **refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237)**
by @andiwand,  reviewed by @paulgessinger, updated on 2024-06-14
- ▶   **Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865)**
by @andiwand,  **no reviewer**, updated on 2024-06-14
- ▶   **refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238)**
by @andiwand,  reviewed by @benjaminhuth, updated on 2024-06-13
- ▶   **refactor: Resolve surfaces on initialization in 'Navigator' (#3283)**
by @andiwand,  **no reviewer**, updated on 2024-06-13
- ▶   **fix(gx2f): use all states for 'jacobianFromStart' (#3274)**
by @AJPfleger,  **no reviewer**, updated on 2024-06-12
- ▶   **feat: Add per event timing (#3124)**
by @CouthuresJeremy,  comment by @andiwand, updated on 2024-06-11
- ▶   **feat: geo model detector elements, converters and plugins (#3213)**
by @asalzburger,  comment by @benjaminhuth, updated on 2024-06-11









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

- ▶  **Stale** **bug: navigation suggests 'pathCorrection=inf' on cylinderSurface (#3267)**
by @AJPfleger, updated on 2024-07-07
- ▶  **Stale** **Project build flags are difficult to control (2024.05.29.) (#3231)**
by @krasznaa, updated on 2024-07-04
- ▶  **Stale** **refactor!: Template on track container frontend 'TrackContainer' (#3193)**
by @andiwand,  **no reviewer**, updated on 2024-07-05
- ▶  **Stale** **feat: Geometry agnostic space point maker (#2890)**
by @Alonl14,  **no reviewer**, updated on 2024-07-06









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

- ▶  **Stale bug: navigation suggests 'pathCorrection=inf' on cylinderSurface (#3267)**
by @AJPfleger, updated on 2024-07-07
- ▶  **Stale feat: Geometry agnostic space point maker (#2890)**
by @Alonl14,  **no reviewer**, updated on 2024-07-06
- ▶   **Stale refactor!: Template on track container frontend 'TrackContainer' (#3193)**
by @andiwand,  **no reviewer**, updated on 2024-07-05
- ▶  **Stale Project build flags are difficult to control (2024.05.29.) (#3231)**
by @krasznaa, updated on 2024-07-04
- ▶   **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












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

- ▶  **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
- ▶  **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











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

- ▶  **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
- ▶  **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









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








- ▶  **Stale** **Ensure Fitters use all provided measurements (#2737)**
by @andiwand, updated on 2024-06-25
- ▶  **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
- ▶  **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

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








- ▶   **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
- ▶  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

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









- ▶  **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
- ▶  **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 Describe replacements of TrackingGeometry, TrackingVolume etc and how the classes map to one another. (#2786)**
by @paulgessinger, updated on 2024-01-10









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

- ▶  **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
- ▶  **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









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

- ▶  **Stale Incorrect material interaction in backward propagation ? (#2429)**
by @Corentin-Allaire, updated on 2023-10-06
- ▶  **Stale Expand TrackingGeometry building from DD4hep with user given input (#2403)**
by @asalzburger, updated on 2023-09-27
- ▶  **Stale FPE: Bethe-Heithler 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









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

- ▶  **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
- ▶  **Stale Different results for full_chain_itk when running locally vs lxxplus (#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

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


- ▶  **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
- ▶  **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

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

- ▶  **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 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 @asalzbürger, updated on 2022-09-20
- ▶  **Stale Some writers performs their writes in the destructor (#881)**
by @paulgessinger, updated on 2022-08-11

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

- ▶ **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