

































Pull request and issue summary for acts-project/acts









December 12, 2023

















acts-project/acts: PRs merged between 2023-12-05 and 2023-12-12 |

- ▶  **chore: Remove 'volumeSignature' from geometry building (#2759)**
by @AJPfleger,  reviewed by @asalzburger, merged on 2023-12-05
- ▶  **revert: Remove 'volumeSignature' from geometry building (#2764)**
by @paulgessinger,  reviewed by @AJPfleger, merged on 2023-12-05
- ▶  **feat: update to ATLAS-based FTF seeding (#2726)**
by @Rosie-Hasan,  reviewed by @AJPfleger, merged on 2023-12-05
- ▶  **fix: Document and fix IWYU (#2765)**
by @andiwand,  reviewed by @AJPfleger, merged on 2023-12-05
- ▶  **refactor: Remove 'representation' from 'ObjectIntersection' (#2760)**
by @andiwand,  reviewed by @asalzburger, merged on 2023-12-05
- ▶  **fix: Fix CKF pathlimit abort (#2744)**
by @andiwand,  reviewed by @asalzburger, merged on 2023-12-05
- ▶  **refactor: Make seeding config more understandable (#2652)**
by @LuisFelipeCoelho,  reviewed by @paulgessinger, merged on 2023-12-06
- ▶  **refactor: Centralize PODIO dynamic columns recovery and use typelist (#2750)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2023-12-06









acts-project/acts: PRs merged between 2023-12-05 and 2023-12-12 II

- ▶  **fix: Fix IWYU mapping file (#2772)**
by @andiwand,  reviewed by @AJPfleger, merged on 2023-12-06
- ▶  **refactor: Move common test helpers to core (#2645)**
by @tboldagh,  reviewed by @paulgessinger, merged on 2023-12-06
- ▶  **chore: Add pre-commit config file (#2763)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2023-12-06
- ▶  **refactor: Factorize GX2F delta param calculation (#2774)**
by @paulgessinger,  reviewed by @AJPfleger, merged on 2023-12-06
- ▶  **refactor: Shrink z range with deltaZMax in Orthogonal seeding (#2673)**
by @LuisFelipeCoelho,  reviewed by @AJPfleger, merged on 2023-12-07
- ▶  **fix: GX2F: Finish material-less fit by resetting the track container (#2739)**
by @AJPfleger,  reviewed by @paulgessinger, merged on 2023-12-07
- ▶  **feat: add useTime to AMVFinder + python binding (#2721)**
by @felix-russo,  reviewed by @andiwand, merged on 2023-12-07
- ▶  **ci: check for unused files - add python checks and CI-dir (#2778)**
by @AJPfleger,  reviewed by @andiwand, merged on 2023-12-07

















- ▶  **refactor: Set defaults for 'GreedyAmbiguityResolution' (#2784)**
by @andiwand,  reviewed by @AJPfleger, merged on 2023-12-11
- ▶  **docs: Bump doxygen, small doc comment fixes (#2790)**
by @paulgessinger,  reviewed by @andiwand, merged on 2023-12-11
- ▶  **refactor!: Refactor 'MaterialSlab' combination (#2783)**
by @andiwand,  reviewed by @paulgessinger, merged on 2023-12-11
- ▶  **refactor!: make trkGridSize non-template parameter in AdaptiveGridTrackDensity (#2745)**
by @felix-russo,  reviewed by @paulgessinger, merged on 2023-12-12

- ▶  **refactor!: set different initial spatial and temporal vertex variances (#2804)**
by @felix-russo,  reviewed by @andiwand, updated on 2023-12-12
- ▶  **feat: error parameterisation (and assignment) for geometric digitisation (#2815)**
by @asalzburger,  **no reviewer**, updated on 2023-12-12
- ▶  **refactor!: Remove 'CovarianceTransport' (#2781)**
by @andiwand,  comment by @andiwand, updated on 2023-12-12
- ▶  **feat: Dyn col copying btw. different backend (Track+TrackState) (#2712)**
by @paulgessinger,  reviewed by @andiwand, updated on 2023-12-12
- ▶  **feat: generic Grid iterator (#2718)**
by @CarloVarni,  comment by @niermann999, updated on 2023-12-12
- ▶  **refactor!: Split TrackStateProxy into own header, public (#2807)**
by @paulgessinger,  **no reviewer**, updated on 2023-12-12
- ▶  **refactor: Refactor navigation (#2768)**
by @andiwand,  comment by @andiwand, updated on 2023-12-12
- ▶  **refactor: Introduce 'CurvilinearSurface' (#2814)**
by @andiwand,  **no reviewer**, updated on 2023-12-12

















acts-project/acts: Open PRs II

- ▶  **refactor: Remove 'resetState' from navigator (#2808)**
by @andiwand, ❌ changes requested by @paulgessinger, updated on 2023-12-12
- ▶  **refactor!: Remove smoothing and extrapolation from CKF (#2722)**
by @andiwand, ✅ comment by @andiwand, updated on 2023-12-12
- ▶  **chore: bump Python version to 3.12 and update requirements (#2770)**
by @AJPfleger, ✅ reviewed by @paulgessinger, updated on 2023-12-12
- ▶  **docs: Add a white paper for line surface jacobian (#2657)**
by @beomki-yeo, ✅ comment by @paulgessinger, updated on 2023-12-12
- ▶  **refactor: Refactor 'Surface::boundToFreeJacobian' (#2811)**
by @andiwand, ⚠️ **no reviewer**, updated on 2023-12-12
- ▶  **refactor: Remove redundant default-constructor factory for Nav delegate (#2741)**
by @paulgessinger, ✅ reviewed by @asalzburger, updated on 2023-12-12
- ▶  **feat: build open data detector from dd4hep in experimental detector schema (#2766)**
by @asalzburger, ✅ reviewed by @paulgessinger, updated on 2023-12-12
- ▶  **feat: ML based seed filtering (#2709)**
by @Corentin-Allaire, ⚠️ **no reviewer**, updated on 2023-12-11


















acts-project/acts: Open PRs III

- ▶  **refactor: Reuse 'JacobianEngine'** (#2789)
by @andiwand,  **no reviewer**, updated on 2023-12-11
- ▶  **docs: update vertexing documentation** (#2802)
by @felix-russo,  **no reviewer**, updated on 2023-12-11
- ▶  **refactor: Remove 'autodiff'** (#2793)
by @andiwand,  **no reviewer**, updated on 2023-12-11
- ▶  **refactor: Use common direction transform Jacobian** (#2782)
by @andiwand,  reviewed by @AJPfleger, updated on 2023-12-11
- ▶  **fix: Initial track param covariance inflation** (#2295)
by @andiwand,  reviewed by @felix-russo, updated on 2023-12-11
- ▶  **feat: Add possibility to rotate the trapezoid bounds** (#2583)
by @junggjo9,  comment by @paulgessinger, updated on 2023-12-09
- ▶  **feat: add helper and fusing infrastructure for cuboidal detectors** (#2754)
by @asalzburger,  changes requested by @AJPfleger, updated on 2023-12-08
- ▶  **feat: writeFloat for seeding performance in SeedingPerformanceWriter.cpp** (#2654)
by @LuisFelipeCoelho,  comment by @paulgessinger, updated on 2023-12-08






















acts-project/acts: Open PRs IV

- ▶  **refactor: consider only tracks with non-zero weight in VertexPerformanceWriter (#2775)**
by @felix-russo,  comment by @felix-russo, updated on 2023-12-07
- ▶  **refactor: correct phi and theta for periodicity changes in KalmanVertexUpdater (#2769)**
by @felix-russo,  reviewed by @paulgessinger, updated on 2023-12-07
- ▶  **fix: cross-covariance matrix in FullBilloirVertexFitter (#2771)**
by @felix-russo,  comment by @felix-russo, updated on 2023-12-07
- ▶  **feat: Use seeding performance in score for Optuna and Orion automatic tuning (#2662)**
by @LuisFelipeCoelho,  comment by @felix-russo, updated on 2023-12-06
- ▶  **chore!: Remove volumeSignature from geometry building (#2767)**
by @AJPfleger,  **no reviewer**, updated on 2023-12-06
- ▶  **feat: allow to set proto material to portals of volumes and containers (#2752)**
by @asalzburger,  reviewed by @Corentin-Allaire, updated on 2023-12-06
- ▶  **refactor!: Give CKF BranchStopper access to TrackState (#2757)**
by @paulgessinger,  **no reviewer**, updated on 2023-11-30
- ▶  **chore: Introduce macOS amr64 CI (#2755)**
by @paulgessinger,  **no reviewer**, updated on 2023-11-30























acts-project/acts: Open PRs ▼

- ▶  **refactor: Move actor state into propagator state (#2552)**
by @andiwand,  comment by @paulgessinger, updated on 2023-11-28
- ▶  **refactor!: Remove implicit default layer from 'CuboidVolumeBuilder' (#2681)**
by @andiwand,  comment by @andiwand, updated on 2023-11-24
- ▶  **perf: Tile 8x8 covariance matrix multiplication (#1181)**
by @stephenswat,  comment by @andiwand, updated on 2023-11-22
- ▶  **refactor: Some internal GSF refactorings (#2697)**
by @benjaminhuth,  changes requested by @andiwand, updated on 2023-11-19
- ▶  **feat!: volume agnostic material mapping (#2473)**
by @asalzburger,  changes requested by @AJPflegler, updated on 2023-11-17
- ▶  **refactor: change the definition of the rotation parameters (#2021)**
by @XiaocongAi,  comment by @XiaocongAi, updated on 2023-11-10
- ▶  **feat: allow rectangular shaped support surfaces (#2310)**
by @asalzburger,  comment by @asalzburger, updated on 2023-11-09
- ▶   **docs: Document Track EDM (#2797)**
by @paulgessinger,  changes requested by @andiwand, updated on 2023-12-12



















acts-project/acts: Open PRs VI

- ▶   **AlignmentGroup** (#2706)
by @gagnonlg,  **no reviewer**, updated on 2023-12-11
- ▶   **docs: A tiny bit of documentation for the Combinatorial Kalman Filter** (#2805)
by @goetzgaycken,  **no reviewer**, updated on 2023-12-11
- ▶   **docs: GX2F: write documentation** (#2803)
by @AJPflegler,  **no reviewer**, updated on 2023-12-11
- ▶   **docs: Add documentation for 'ActsFatras'** (#2801)
by @andiwand,  **no reviewer**, updated on 2023-12-11
- ▶   **docs: Add documentation for 'ParticleHypothesis'** (#2799)
by @andiwand,  **no reviewer**, updated on 2023-12-11
- ▶   **feat: update ODD version** (#2399)
by @asalzburger, review requested, updated on 2023-12-08
- ▶    **fix: Correct the Sign of Drift Distance** (#2538)
by @beomki-yeo,  comment by @paulgessinger, updated on 2023-12-08






















acts-project/acts: Open PRs VII








- ▶   **WIP**  **Stale** **refactor: Physmon in pytest (#2575)**
by @paulgessinger,  comment by @paulgessinger, updated on 2023-12-08
- ▶   **WIP**  **Stale** **feat: Proposal for required config parameters in Examples (#2559)**
by @andiwand,  **no reviewer**, updated on 2023-12-08
- ▶   **WIP**  **Stale** **feat: Random transformations of aligned sensors (#2519)**
by @LaraCalic,  comment by @paulgessinger, updated on 2023-12-08
- ▶   **WIP**  **Stale** **feat: Adding grouping mechanism and delta calculations (#2520)**
by @LaraCalic,  comment by @paulgessinger, updated on 2023-12-08
- ▶   **WIP** **chore: some updates to the release script (#2779)**
by @paulgessinger,  **no reviewer**, updated on 2023-12-07
- ▶   **WIP** **refactor: make usage of vertex constraint more evident (#2529)**
by @felix-russo,  changes requested by @andiwand, updated on 2023-12-07

acts-project/acts: Open PRs VIII

- ▶   **refactor!:** remove variable `useVertexCovForIPEstimation` from `AMVFinder` config (#2715)
by @felix-russo,  comment by @felix-russo, updated on 2023-12-07
- ▶   **draft:** odd with new detector variant (#2687)
by @asalzburger,  **no reviewer**, updated on 2023-12-06
- ▶   **feat:** improve `svg` display of indexed surfaces (#2773)
by @asalzburger,  **no reviewer**, updated on 2023-12-06
- ▶   **feat:** adding new `IndexedSurfaceMaterial` (#2701)
by @asalzburger,  comment by @noemina, updated on 2023-12-05
- ▶   **refactor!:** Rewrite navigation (#2625)
by @andiwand,  comment by @andiwand, updated on 2023-12-01
- ▶   **feat:** Structured logging (#2684)
by @paulgessinger,  **no reviewer**, updated on 2023-11-21

acts-project/acts: Open PRs IX

- ▶   refactor!: **Fitted params to fitted momenta** (#2402)
by @felix-russo,  **no reviewer**, updated on 2023-11-20
- ▶   feat: **Add GSF component momentum cut to stabilize fit** (#2661)
by @benjaminhuth,  comment by @benjaminhuth, updated on 2023-11-18
- ▶   feat!: **new cubic volume building** (#1821)
by @asalzburger,  **no reviewer**, updated on 2023-11-17
- ▶   feat: **GSF Debugger** (#2682)
by @benjaminhuth,  **no reviewer**, updated on 2023-11-16
- ▶   refactor: **Delete the examples binaries** (#2685)
by @paulgessinger,  **no reviewer**, updated on 2023-11-16
- ▶   refactor!: **Surface returns transform by value** (#2527)
by @asalzburger,  **no reviewer**, updated on 2023-11-13
- ▶   feat!: **Space point implementation** (#1900)
by @CarloVarni,  comment by @paulgessinger, updated on 2023-11-13



























- ▶   **feat: cubic Detector infrastructure (#2308)**
by @asalzburger,  **no reviewer**, updated on 2023-11-08
- ▶    **refactor: add geohook for fast digitization range selection to itk example (#2089)**
by @niermann999,  **no reviewer**, updated on 2023-11-08

- ▶ **EDM4hep parameter conversion should use jacobians directly (#2813)**
by @paulgessinger, updated on 2023-12-12
- ▶ **Redundancy of bound and curvilinear state (#2812)**
by @andiwand, updated on 2023-12-12
- ▶ **'Surface::boundToFreeJacobian' could also use 'FreeVector' parameters (#2810)**
by @andiwand, updated on 2023-12-11
- ▶ **Write GX2F documentation (#2791)**
by @AJPfleger, updated on 2023-12-11
- ▶ **Telescope detector cookbook (#2800)**
by @paulgessinger, updated on 2023-12-11
- ▶ **bug: documentation always builds in '<source>' (#2798)**
by @AJPfleger, updated on 2023-12-11
- ▶ **Write fatras documentation (#2796)**
by @andiwand, updated on 2023-12-11
- ▶ **Write about new ParticleHypothesis type and assumptions (#2795)**
by @andiwand, updated on 2023-12-11


















acts-project/acts: Issues opened since 2023-12-05 II

- ▶ **Write CKF documentation (#2794)**
by @paulgessinger, updated on 2023-12-11
- ▶ **Remove autodiff documentation (#2792)**
by @andiwand, updated on 2023-12-11
- ▶ **Write documentation on the Track EDM (#2788)**
by @paulgessinger, updated on 2023-12-11
- ▶ **Describe how the legacy geometry used to work and how it differs from the layerless geometry (#2787)**
by @paulgessinger, updated on 2023-12-11
- ▶ **Describe replacements of TrackingGeometry, TrackingVolume etc and how the classes map to one another. (#2786)**
by @paulgessinger, updated on 2023-12-11
- ▶ **Add description of Blueprint tree and how it can be used to create layerless detector. (#2785)**
by @paulgessinger, updated on 2023-12-11
- ▶ **pytest-check 2.2.0..2.2.2 breaks some CI checks (linux_test_examples) (#2777)**
by @AJPfleger, updated on 2023-12-07
- ▶ **Set a different value of eta range using odd (#2776)**
by @rubihason, updated on 2023-12-06








acts-project/acts: New stale Issues / PRs since 2023-12-05 |

- ▶   **WIP**  **Stale** refactor: **Physmon in pytest** (#2575)
by @paulgessinger,  **no reviewer**, updated on 2023-12-08
- ▶   **WIP**  **Stale** feat: **Proposal for required config parameters in Examples** (#2559)
by @andiwand,  **no reviewer**, updated on 2023-12-08
- ▶   **WIP**  **Stale** fix: **Correct the Sign of Drift Distance** (#2538)
by @beomki-yeo,  **no reviewer**, updated on 2023-12-08
- ▶   **WIP**  **Stale** feat: **Adding grouping mechanism and delta calculations** (#2520)
by @LaraCalic,  **no reviewer**, updated on 2023-12-08
- ▶   **WIP**  **Stale** feat: **Random transformations of aligned sensors** (#2519)
by @LaraCalic,  **no reviewer**, updated on 2023-12-08
- ▶   **Stale** **Improvements to Track EDM** (#1993)
by @paulgessinger, updated on 2023-12-11
- ▶   **Stale** **Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON** (#1818)
by @DraTeets, updated on 2023-12-11
- ▶   **Stale** **Remove 'volumeSignature' from geometry building** (#1731)
by @paulgessinger, updated on 2023-12-06











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

- ▶  **Stale Improvements to Track EDM (#1993)**
by @paulgessinger, updated on 2023-12-11
- ▶  **Stale Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON (#1818)**
by @DraTeots, updated on 2023-12-11
- ▶   **fix: Correct the Sign of Drift Distance (#2538)**
by @beomki-yeo,  **no reviewer**, updated on 2023-12-08
- ▶   **refactor: Physmon in pytest (#2575)**
by @paulgessinger,  **no reviewer**, updated on 2023-12-08
- ▶   **feat: Proposal for required config parameters in Examples (#2559)**
by @andiwand,  **no reviewer**, updated on 2023-12-08
- ▶   **feat: Random transformations of aligned sensors (#2519)**
by @LaraCalic,  **no reviewer**, updated on 2023-12-08
- ▶   **feat: Adding grouping mechanism and delta calculations (#2520)**
by @LaraCalic,  **no reviewer**, updated on 2023-12-08









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

- ▶  **Stale** **Remove 'volumeSignature' from geometry building (#1731)**
by @paulgessinger, updated on 2023-12-06
- ▶  **Stale** **FPE: AMVF keepNewVertex (#2590)**
by @andiwand, updated on 2023-11-26
- ▶  **Stale** **Bug: Fatras sets step size to 0 (#2543)**
by @andiwand, updated on 2023-11-12
- ▶  **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** **[Feature Request] Padding utility for field map in case tracking volume is larger than a given field map (#2523)**
by @janheinri, updated on 2023-11-09









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

- ▶   WIP  **Stale refactor: add geohook for fast digitization range selection to itk example (#2089)**
by @niermann999,  **no reviewer**, updated on 2023-11-08
- ▶  **Stale [Bug] Fatras can't seem to handle energy loss for electrons on thin surfaces (#2498)**
by @janheinri, updated on 2023-11-01
- ▶  **Stale Incorrect material interaction in backward propagation ? (#2429)**
by @Corentin-Allaire, updated on 2023-10-06
- ▶  **Stale Bug: Negative variances from AMVF (#2231)**
by @felix-russo, updated on 2023-09-29
- ▶  **Stale Expand TrackingGeometry building from DD4hep with user given input (#2403)**
by @asalzbuerger, updated on 2023-09-27
- ▶  **Stale LCG compatibility (#2054)**
by @paulgessinger, updated on 2023-09-22
- ▶  **Stale Bug: AMVF 'deleteLastVertex' might be wrong (#2380)**
by @andiwand, updated on 2023-09-16









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

- ▶  **Stale Bug: not all tracks have fittedMomentum (#2364)**
by @felix-russo, updated on 2023-09-13
- ▶  **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 Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in' (#2216)**
by @andiwand, updated on 2023-09-01
- ▶  **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 V

- ▶  **Stale Bug: Covariance matrix needs to be blown up in ODD example (#2074)**
by @pbutti, updated on 2023-07-23
- ▶  **Stale MultiTrajectory buffer default constructible (#2154)**
by @tboldagh, updated on 2023-07-20
- ▶  **Stale Construct tracking geometry from python (#2173)**
by @andiwand, updated on 2023-07-20
- ▶  **Stale EstimateTrackParamsFromSeed does not use time of measurement (#2136)**
by @andiwand, updated on 2023-07-17
- ▶  **Stale TrackAtVertex trackWeight is not being written in IVF (#2149)**
by @andiwand, updated on 2023-06-23
- ▶  **Stale Track nDoF only returns the sum of calibrated size and not the actual DoFs. (#2076)**
by @pbutti, updated on 2023-06-22
- ▶  **Stale Proposal: MultiWire SurfaceCandidateUpdater (#2063)**
by @asalzburger, updated on 2023-06-21
- ▶  **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 VI

- ▶  **Stale Feature: Measurement removal to get unbiased residual during smoothing (#2031)**
by @XiaocongAi, updated on 2023-05-20
- ▶  **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 lplus (#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









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

- ▶  **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 Drop 'boost progress' from examples where it is not used (#1736)**
by @tboldagh, updated on 2023-01-16
- ▶  **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 Create volume restricted BFieldMap (#1659)**
by @asalzburger, updated on 2022-12-21
- ▶  **Stale Documentation update: Core (#1418)**
by @paulgessinger, updated on 2022-11-23
- ▶  **Stale Documentation update: Examples (#1420)**
by @paulgessinger, updated on 2022-11-23









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- ▶  **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 Documentation update: FATRAS (#1419)**
by @paulgessinger, updated on 2022-10-22
- ▶  **Stale Vertexing produces vertex candidates that are unreasonable (#1361)**
by @paulgessinger, updated on 2022-10-22
- ▶  **Stale Add Primary Vertex Label to tracks (#1544)**
by @Lucas-Borgna, 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 Documentation: hints for debugging (#1463)**
by @timadye, updated on 2022-09-24

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- ▶  **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 Vertexing produces propagation errors (#1345)**
by @paulgessinger, updated on 2022-09-20
- ▶  **Stale add monitoring for vertexing in physmon (#1313)**
by @andiwand, updated on 2022-09-20
- ▶  **Stale 2D r-z Magnetic Field Map Improperly Read (#669)**
by @osbornjd, 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

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- ▶  **Stale Magnetic Field Storage (#1239)**
by @osbornjd, updated on 2022-06-12
- ▶  **Stale Reproducibility test using hash checks for non-linear KF (#1246)**
by @paulgessinger, updated on 2022-06-12
- ▶  **Stale Cut tube segment dd4hep conversion tests (#1146)**
by @rahmans1, updated on 2022-05-25
- ▶  **Stale Bug: fatras different particle final states between python and executable (#1221)**
by @CouthuresJeremy, updated on 2022-05-01
- ▶  **Stale Bug: issue on first build after DD4hep update on system with globally installed acts (#1139)**
by @gagnonlg, updated on 2022-02-22
- ▶  **Stale Feat: Radial bounds in DD4hep plugin (#822)**
by @whit2333, updated on 2022-02-19
- ▶  **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 [bug] Off axis endcap with dd4hep plugin. (#942)**
by @whit2333, 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
- ▶  **Stale Debug Information in Acts Seeder (#944)**
by @osbornjd, updated on 2021-10-21
- ▶  **Stale fix: avoid double-static cast (#647)**
by @asalzburger, updated on 2021-10-21