Pull request and issue summary for acts-project/acts

January 28, 2025

acts-project/acts: PRs merged between 2025-01-21 and 2025-01-28 | I

- ▶ **feat: Plane surface merging** (#4037) by @ssdetlab, ✓ reviewed by @paulgessinger, merged on 2025-01-21
- ▶ **fix:** Fix enum conversion error in Podio plugin (#4041) by @stephenswat, ✓ reviewed by @paulgessinger, merged on 2025-01-21
- ► refactor: Split particle selection in Examples (#3969) by @andiwand, reviewed by @benjaminhuth, merged on 2025-01-21
- ▶ feat: introducing common ProtoAxis concept (#4034) by @asalzburger, reviewed by @paulgessinger, merged on 2025-01-21
- ▶ **build!:** Make third-party libraries system dependencies (#3949) by @stephenswat, ✓ reviewed by @paulgessinger, merged on 2025-01-22
- ▶ **feat!**: **Updates to GBTS for Athena Implementation** (#3882) by @Rosie-Hasan, ✓ reviewed by @timadye, merged on 2025-01-23
- ▶ \$\instrum_\circ\$ feat: adding json conversion and unit test for 'ProtoAxis' (#4045) by @asalzburger, ✓ reviewed by @AJPfleger, merged on 2025-01-24
- ► feat: Adding cuboid volume stack (#4040) by @ssdetlab, ✓ reviewed by @paulgessinger, merged on 2025-01-24

acts-project/acts: PRs merged between 2025-01-21 and 2025-01-28 II

- ▶ feat: Adding planar portal link (#4044)
 by @ssdetlab,
 ✓ reviewed by @paulgessinger, merged on 2025-01-24
- ► refactor!: move source link creation, track state creation, measurement selection into a single unit outside of the CKF (#3825) by @goetzgaycken, comment by @goetzgaycken, merged on 2025-01-27
- ► feat: Acts::Extent python binding improved (#4050) by @asalzburger, ✓ reviewed by @benjaminhuth, merged on 2025-01-28
- ▶ **fix:** Fix initialization bug for direct navigator backward mode (#4051) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2025-01-28

acts-project/acts: Open PRs I

- ▶ \$\times \text{ refactor!: Move GBTS to experimental namespace} (#4048) by @Rosie-Hasan, \$\times \text{ comment by @andiwand, updated on 2025-01-28}\$
- ▶ \$\frac{1}{1}\$ fix: Sequencer run with 0 threads or 0 events (#4053) by @paulgessinger, \$\frac{1}{1}\$ no reviewer, updated on 2025-01-28
- ▶ \$\frac{1}{1}\$ fix: ScoreBasedAmbiguityResolution to avoid very high score. (#4052) by @Ragansu, ✓ reviewed by @Corentin-Allaire, updated on 2025-01-28
- ▶ \$\instrum_{\text{fix:}}\$ fix: Write correct tracks to file for refitting, mask FPE (#3999) by @benjaminhuth, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-28
- ▶ \$\tilde{\cappa}\$ feat: Adding cuboid portal shell (#4047) by @ssdetlab, comment by @coderabbitai[bot], updated on 2025-01-28
- ➤ îì ci: Spack (#3980) by @paulgessinger, ✓ comment by @paulgessinger, updated on 2025-01-27
- ▶ ↑ refactor: 'ProtoLayer' can (optionally) hold mutable surfaces (#4030) by @paulgessinger, ✓ reviewed by @asalzburger, updated on 2025-01-27

acts-project/acts: Open PRs II

- ▶ **Chore:** automated python requirements upgrades (#3924) by @github-actions[bot], ★ changes requested by @AJPfleger, updated on 2025-01-26
- ▶ ↑ refactor: simplify track selection logic in AlignmentAlgorithm (#3934) by @AJPfleger, ✓ comment by @coderabbitai[bot], updated on 2025-01-24
- ▶ [*] refactor!: material: 'double' for pathCorrection (#3920) by @AJPfleger, ✓ comment by @coderabbitai[bot], updated on 2025-01-24
- ▶ ↑ refactor: remove redundant logical in covariance helper (#4033) by @AJPfleger,review requested, updated on 2025-01-24
- ▶ \$\infty\$ fix: compilation without geant4 (#4003) by @goetzgaycken, comment by @paulgessinger, updated on 2025-01-23
- ▶ \$\frac{1}{2}\$ docs: Add troubleshooting section for Spack (#3881)
 by @stephenswat, \$\sqrt{2}\$ comment by @coderabbitai[bot], updated on 2025-01-23
- ▶ \$\infty\$ feat: Add closest point and distance computation to 'SurfaceBounds' (#3990) by @andiwand, comment by @coderabbitai[bot], updated on 2025-01-22
- ► Ci: Add extra build job with clang 19 (#3943)
 by @stephenswat, ✓ comment by @coderabbitai[bot], updated on 2025-01-22

acts-project/acts: Open PRs III

- ▶ \$\infty\$ feat: External surfaces for GSF (#3970) by @benjaminhuth, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-22
- ► \$\times\$ Stale add misalignment decoration for DD4hep detector (#3891) by @Zequn-SUN, comment by @coderabbitai[bot], updated on 2025-01-22
- ▶ **[** refactor!: Decouple stepping from navigation (#4039) by @andiwand, ✓ comment by @coderabbitai[bot], updated on 2025-01-21
- ▶ **|``\ build:** find Python after DD4hep to find the correct one (#4042) by @jmcarcell, **|\ \ no reviewer**, updated on 2025-01-21
- ► \$\infty\$ chore: fix more sonarcloud issues (#4017) by @asalzburger, reviewed by @vincent89291, updated on 2025-01-21
- ▶ \$\times\$ Stale feat: Add/activate reverse filter cov inflation for KF and GSF (#3996) by @benjaminhuth, comment by @coderabbitai[bot], updated on 2025-01-18
- ▶ Chore: Add 'google-explicit-constructor' to clang-tidy config (#3972) by @paulgessinger, ✓ comment by @coderabbitai[bot], updated on 2025-01-17
- ▶ \$\infty\$ feat: Update athena dump reader (#4011) by @benjaminhuth, \$\infty\$ comment by @coderabbitai[bot], updated on 2025-01-16

acts-project/acts: Open PRs IV

- ▶ \$\times\$ feat(physmon): compare GX2F vs KF truth tracking (#3889) by @AJPfleger, comment by @coderabbitai[bot], updated on 2025-01-15
- ▶ \$\infty\$ feat: Adding efficiency vs production radius to output root files (Revision of PR #3539) (#3981) by @delitez, \$\infty\$ comment by @coderabbitai[bot], updated on 2025-01-15
- ▶ \$\infty\$ feat: Structured logging (#3955) by @paulgessinger, comment by @coderabbitai[bot], updated on 2025-01-10
- ▶ \$\frac{1}{1}\$ feat: Conversion and chain code in traccc (#3656) by @stephenswat, \$\sqrt{2}\$ comment by @coderabbitai[bot], updated on 2025-01-09
- ► \$\times\$ Stale refactor!: Make nlohmann::json a public dependency (#3954) by @paulgessinger, comment by @coderabbitai[bot], updated on 2025-01-08
- ► Stale feat: Adding G4Trap converter in Geant4Converters (#3775) by @ldamenti, ✓ comment by @coderabbitai[bot], updated on 2025-01-04
- ► \$\times\$ Stale feat: Add 'noexcept' specifier to 'Acts::Any' (#3743) by @benjaminhuth, <a> comment comment by @paulgessinger, updated on 2025-01-04

acts-project/acts: Open PRs V

- ► \$\times\$ Stale chore: SonarCloud fixes, part 0 (#3942) by @asalzburger, \$\nsimes\$ comment by @coderabbitai[bot], updated on 2025-01-04
- ► Stale feat: bump detray version, add material tracer (#3755) by @asalzburger, ✓ comment by @coderabbitai[bot], updated on 2025-01-03
- ► \$\infty\$ Stale feat: traccc plugin (conversion) (#3281) by @fredevb, comment by @coderabbitai[bot], updated on 2024-12-30
- ▶ Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, ✓ comment by @coderabbitai[bot], updated on 2024-12-30
- ► Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, ✓ comment by @coderabbitai[bot], updated on 2024-12-30
- ► Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, ✓ comment by @coderabbitai[bot], updated on 2024-12-29
- ▶ \$\times\$ Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, ✓ comment by @coderabbitai[bot], updated on 2024-12-29

acts-project/acts: Open PRs VI

- ► \$\infty\$ Stale feat: Add a fastjet plugin (#3617) by @gagnonlg, \(\square \) comment by @coderabbitai[bot], updated on 2024-12-29
- ▶ \$\times \quad \text{WIP} \quad \text{chore: remove 'ProtoBinning' in favour of 'ProtoAxis' (#4046)} by @asalzburger, \$\times \quad \text{comment by @coderabbitai[bot], updated on 2025-01-25}\$
- ▶ ↑ WIP refactor: Some internal GSF refactorings (#2697) by @benjaminhuth, ★ changes requested by @andiwand, updated on 2025-01-22
- ▶ 1 WIP feat: move MaterialTrackWriting infrastructure to Core + first use of RNTuple (#4043) by @asalzburger, ✓ comment by @asalzburger, updated on 2025-01-21
- by @paulgessinger,review requested, updated on 2025-01-20
- by @andiwand, no reviewer, updated on 2025-01-17

acts-project/acts: Open PRs VII

- ▶ \$\frac{\sqrt{\text{WIP}}}{\text{w}}\$ Stale refactor!: Always return a magnetic field vector (#3951) by @andiwand, \text{v} comment by @andiwand, updated on 2025-01-16
- ▶ \$\infty \text{WIP} fix: Prefer external surface candidates in Navigation (#3989) by @andiwand, \$\sqrt{\sqrt{\comment}}\$ comment by @benjaminhuth, updated on 2025-01-15
- by @AJPfleger, no reviewer, updated on 2025-01-15
- ▶ \$\frac{1}{100}\$ WIP Stale refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger,review requested, updated on 2025-01-06
- by @andiwand, no reviewer, updated on 2025-01-05
- ▶ \$\frac{1}{100}\$ WIP Stale feat: Adding efficiency vs production radius to output root files (#3539) by @AichaMattouhi, ✓ comment by @paulgessinger, updated on 2025-01-05
- by @XiaocongAi, no reviewer, updated on 2025-01-03

acts-project/acts: Open PRs VIII

- ▶ \$\frac{\text{\$\square}}{\text{\$\square}}\$ \ \text{Stale} \ \text{refactor: avoid 'addWhiteboardAlias' in truth tracking examples (#3936)} \ \text{by @AJPfleger, \$\square\$ comment by @andiwand, updated on 2025-01-02}
- ▶ (WIP Stale refactor: reduce complexity of highly nested blocks (#3633) by @AJPfleger, ✓ comment by @AJPfleger, updated on 2025-01-01
- by @paulgessinger, no reviewer, updated on 2025-01-01
- by @benjaminhuth, comment by @benjaminhuth, updated on 2024-12-30
- ▶ \$\times \text{WIP} \text{ Stale refactor!: Middle range strategy (#3719)} by @CarloVarni, \textstyre comment by @paulgessinger, updated on 2024-12-28
- ► \$\times \text{WIP} \text{ Stale refactor!: Seed Finders create collection of 'Seed<external_spacepoint_t>' instead of 'Seed<Proxy<external_spacepoint_tn' (#3729) by @CarloVarni, \text{ comment by @coderabbitai[bot], updated on 2024-12-28}

acts-project/acts: Open PRs IX

- by @fredevb, no reviewer, updated on 2024-11-29
- ▶ 1 WIP Stale build: physmon for traccc chains (host and cuda) (#3403) by @fredevb, no reviewer, updated on 2024-11-29
- ► \$\ \cong \cong\
- by @benjaminhuth, no reviewer, updated on 2024-11-29
- by @paulgessinger, no reviewer, updated on 2024-11-29
- ▶ \$\times \text{WIP} \text{ Stale refactor: Detector Element refactoring proposal (#3574)} by @benjaminhuth, \$\times\$ comment by @asalzburger, updated on 2024-11-29

acts-project/acts: Issues opened since 2025-01-21 |

▶ • Use of Eigen causes segmentation faults in digitization reader (#4049) by @stephenswat, updated on 2025-01-25

acts-project/acts: New stale Issues / PRs since 2025-01-21 |

► \$\ \tag{Stale} \text{ add misalignment decoration for DD4hep detector (#3891)} by @Zequn-SUN, \(\bar{\Lambda} \) no reviewer, updated on 2025-01-22

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- ► Stale add misalignment decoration for DD4hep detector (#3891) by @Zequn-SUN, no reviewer, updated on 2025-01-22
- Stale Kalman Filter backward pass is using measurements twice without weights (#3994) by @andiwand, updated on 2025-01-19
- ► Stale feat: Add/activate reverse filter cov inflation for KF and GSF (#3996) by @benjaminhuth, no reviewer, updated on 2025-01-18
- by @pbutti, no reviewer, updated on 2025-01-17
- ▶ Stale Track EDM: Optimize dynamic columns in Vector backends (#3864) by @paulgessinger, updated on 2025-01-17
- ► \$\frac{\sim}{\cong}\$ \quad \text{WIP} \quad \text{Stale} \quad \text{refactor!: Always return a magnetic field vector (#3951)} \quad \text{by @andiwand, \(\begin{array}{c} \no \text{reviewer}, \text{ updated on 2025-01-16} \end{array}\)
- by @AJPfleger, no reviewer, updated on 2025-01-15

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- ► Stale refactor!: Make nlohmann::json a public dependency (#3954) by @paulgessinger, ↑ no reviewer, updated on 2025-01-08
- ▶ **Stale** 'Pythia8Generator' produces different results with multi-threading (#3963) by @andiwand, updated on 2025-01-06
- by @paulgessinger, no reviewer, updated on 2025-01-06
- by @andiwand, no reviewer, updated on 2025-01-05
- by @AichaMattouhi, no reviewer, updated on 2025-01-05
- Stale feat: Adding G4Trap converter in Geant4Converters (#3775) by @ldamenti, no reviewer, updated on 2025-01-04
- Stale feat: Add 'noexcept' specifier to 'Acts::Any' (#3743) by @benjaminhuth, no reviewer, updated on 2025-01-04

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

- ▶ Stale chore: SonarCloud fixes, part 0 (#3942) by @asalzburger, ↑ no reviewer, updated on 2025-01-04
- ► \$\frac{\(\)}{\cong} \quad \text{Stale feat: bump detray version, add material tracer (#3755)} \\ \text{by @asalzburger, } \(\) no reviewer, updated on 2025-01-03
- ▶ ↑ WIP Stale perf: add 2d perf plots (#3893) by @XiaocongAi, ↑ no reviewer, updated on 2025-01-03
- Stale improvement: use Geant4 nuclear interactions in FATRAS (#3939) by @AJPfleger, updated on 2025-01-02
- by @AJPfleger, no reviewer, updated on 2025-01-02
- by @AJPfleger, no reviewer, updated on 2025-01-01
- by @paulgessinger, no reviewer, updated on 2025-01-01

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

- by @benjaminhuth, no reviewer, updated on 2024-12-30
- by @fredevb, no reviewer, updated on 2024-12-30
- Stale feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-12-30
- Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, no reviewer, updated on 2024-12-30
- Stale refactor: Lift GenericDetector to a Plugin (#3425) by @benjaminhuth, no reviewer, updated on 2024-12-29
- Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, no reviewer, updated on 2024-12-29
- ► \$\infty\$ Stale feat: Add a fastjet plugin (#3617) by @gagnonlg, no reviewer, updated on 2024-12-29

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

- by @CarloVarni, no reviewer, updated on 2024-12-28
- > \(\) \(\
- Stale Avoid direct inversion of covariance matrices for numerical stability (#3910) by @coderabbitai[bot], updated on 2024-12-26
- Stale FLTUND in KF in physmon at 'PointwiseMaterialInteraction::covarianceContributions' (#3890) by @AJPfleger, updated on 2024-12-22
- Stale 'common' CMake preset requires ccache (#3537) by @stephenswat, updated on 2024-12-21
- Stale GSF throws warnings regularly with ODD (#3738) by @andiwand, updated on 2024-12-21

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

- ► Stale docs: Sphinx '>=7.4.0' breaks warning ignore script (#3879) by @AJPfleger, updated on 2024-12-21
- ► Stale Gen3 geometry (#3502) by @paulgessinger, updated on 2024-12-18
- Stale Potential Dangling Pointers in 'createTree' Function (#3814) by @coderabbitai[bot], updated on 2024-12-05
- by @CouthuresJeremy, no reviewer, updated on 2024-11-29
- by Ofredevb, no reviewer, updated on 2024-11-29

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

- by @fredevb, no reviewer, updated on 2024-11-29
- ► \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414) by @pbutti, \text{\hat{\chi}} no reviewer, updated on 2024-11-29
- by @benjaminhuth, no reviewer, updated on 2024-11-29
- by @paulgessinger, no reviewer, updated on 2024-11-29
- by @benjaminhuth, no reviewer, updated on 2024-11-29
- Stale Common shared measurement computation? (#3618) by @gagnonlg, updated on 2024-10-26

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- ► Stale 'TrackStateType' is easy to get wrong (#3439) by @andiwand, updated on 2024-09-26
- Stale FPE: RootTrajectoryStatesWriter (#2348) by @paulgessinger, updated on 2024-09-15
- Stale 'GlobalChiSquareFitter' produces parameters in wrong volume (#3444) by @andiwand, updated on 2024-09-05
- Stale Bug: _acts_dfelibs_version unset in CMakeLists.txt (#3457) by @wdconinc, updated on 2024-09-05
- Stale Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment (#1778)
 by @tboldagh, updated on 2024-07-24

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- Stale [bug] Off axis endcap with dd4hep plugin. (#942) by @whit2333, updated on 2024-06-26
- 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 Construct tracking geometry from python (#2173) by @andiwand, updated on 2024-06-25

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- Stale [Feature Request] Padding utility for field map in case tracking volume is larger than a given field map (#2523) by @ianheinri, 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 EDM Memory usage (#1516) by @paulgessinger, updated on 2024-05-25

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- by @CouthuresJeremy, 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 Documentation on geometry misalignments (#2940) by @paulgessinger, updated on 2024-05-17

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- by @andiwand, updated on 2024-05-05
- ► Stale HepMC plugin looks incomplete (#3050) by @andiwand, updated on 2024-04-26
- Stale 'EigenStepper' (and extensions) cannot be easily extended for dense environment covariance transport (#2868) by @andiwand, updated on 2024-03-20
- Stale 'Stepper' and 'Navigator' cannot be configured by 'PropagatorOptions' (#2861) by @andiwand, updated on 2024-02-09
- ► Stale Fitters use 'PropagatorPlainOptions' and not 'PropagatorOptions' (#2862) by @andiwand, updated on 2024-02-09

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- Stale 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

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- ► 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 @ianheinri, updated on 2023-11-09
- Stale Incorrect material interaction in backward propagation ? (#2429) by @Corentin-Allaire, updated on 2023-10-06
- ▶ **Stale** Expand TrackingGeometry building from DD4hep with user given input (#2403) by @asalzburger, updated on 2023-09-27

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- ▶ Stale FPE: GaussianMixtureReduction (#2347) by @paulgessinger, updated on 2023-09-03

- 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 Ixplus (#1819) by @CarloVarni, updated on 2023-05-09

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- Stale vertex fitting and duplicate tracks (#1992) by @rubihason, updated on 2023-05-09
- Stale Estimate Track Parameters from Seeds use only one surface. What about strips? (#1895) by @CarloVarni, updated on 2023-05-09
- ▶ Stale Bug: Unpredicatable navigation in layer with overlapping surface (#1852) by @Corentin-Allaire, updated on 2023-03-25
- ▶ **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

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- ► Stale Documentation update: How-to (core) (#1422) by @paulgessinger, updated on 2022-11-23
- ▶ **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 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

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- Stale Bug: issue on first build after DD4hep update on system with globaly installed acts (#1139) by @gagnonlg, updated on 2022-02-22
- Stale Should seed finding tools have a higher-level interface? (#988) by @stephenswat, updated on 2021-11-25
- Stale Improvement: Estimate track parameters from seed at perigee surface (#1036) by @XiaocongAi, updated on 2021-11-10
- ▶ Stale Tracking for TPC/DC without surfaces (#165) by @FabianKlimpel, updated on 2021-11-04