Pull request and issue summary for acts-project/acts

January 21, 2025

acts-project/acts: PRs merged between 2025-01-14 and 2025-01-21 I

- ▶ **fix:** Use forced approach for 'MultiStepperSurfaceReached' (#4025) by @andiwand, ✓ reviewed by @paulgessinger, merged on 2025-01-14
- ► chore!: rename BinningValue to AxisDirection (#4005) by @asalzburger, ✓ reviewed by @paulgessinger, merged on 2025-01-14
- ▶ fix: Reset component state in 'MultiEigenStepperLoop' over 'MultiStepperSurfaceReached'
 (#4027)
 by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2025-01-15
- ▶ feat: Add support for CUDA streams in GNN plugin (#4012) by @benjaminhuth, ✓ reviewed by @stephenswat, merged on 2025-01-15
- ► For refactor!: Decouple navigation and stepping (#3449) by @andiwand, comment by @coderabbitai[bot], merged on 2025-01-15
- ► fix: Add portal visualization to 'TrackingVolume' (#4029) by @paulgessinger, reviewed by @asalzburger, merged on 2025-01-15
- ▶ ci: Use CERN registry cache in GitLab CI round 2 (#4023) by @paulgessinger, reviewed by @andiwand, merged on 2025-01-15

acts-project/acts: PRs merged between 2025-01-14 and 2025-01-21 II

- ▶ \$\(\bigcup \) build: Only install python files for enabled components (#4004) by @paulgessinger, \(\bigcup \) reviewed by @goetzgaycken, merged on 2025-01-15
- ▶ ‰ ci: Run unit test + downstream on main ubuntu build (gitlab) (#4020) by @paulgessinger, ✓ reviewed by @AJPfleger, merged on 2025-01-15
- ► For refactor!: Strongly typed enum for 'ConstrainedStep::Type' and capital initial letter (#4013) by @andiwand, reviewed by @paulgessinger, merged on 2025-01-15
- ▶ **build: CMake find directives, policy grouping** (#4026) by @paulgessinger, ✓ reviewed by @AJPfleger, merged on 2025-01-16
- ▶ fix: Off-by-one error in WhiteBoard levenshtein implementation (#4032) by @paulgessinger, ✓ reviewed by @benjaminhuth, merged on 2025-01-16
- ▶ refactor!: Make Direction constructor explicit (#3973) by @paulgessinger, reviewed by @andiwand, merged on 2025-01-16
- ▶ feat: Add buffered reader (#4018) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2025-01-17
- ► In refactor!: Explicit BoundaryTolerance constructors (#3974) by @paulgessinger, reviewed by @andiwand, merged on 2025-01-17

acts-project/acts: PRs merged between 2025-01-14 and 2025-01-21 III

- ▶ feat: Add CUDA connected components & track building (#4015) by @benjaminhuth, ✓ reviewed by @stephenswat, merged on 2025-01-20
- ▶ feat: Allow multiple aliases for one whiteboard entry in Examples (#4035) by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2025-01-20
- ▶ **fix:** Fix enum conversion error in Podio plugin (#4041) by @stephenswat, ✓ reviewed by @paulgessinger, merged on 2025-01-21

acts-project/acts: Open PRs I

- ▶ \$\times\$ feat: introducing common ProtoAxis concept (#4034) by @asalzburger, \$\nsimes\$ comment by @asalzburger, updated on 2025-01-21
- ▶ \$\infty\$ feat: Adding cuboid volume stack (#4040) by @ssdetlab, comment by @paulgessinger, updated on 2025-01-21
- ▶ \$\frac{1}{2}\$ build: find Python after DD4hep to find the correct one (#4042) by @jmcarcell, \(\bar{1}\) no reviewer, updated on 2025-01-21
- ▶ \$\infty\$ build!: Make third-party libraries system dependencies (#3949) by @stephenswat, \$\infty\$ comment by @coderabbitai[bot], updated on 2025-01-21
- ➤ ↑ refactor: Split particle selection in Examples (#3969) by @andiwand, ✓ reviewed by @benjaminhuth, updated on 2025-01-21
- ▶ \$\infty\$ feat: Add TensorRT support for GNNs (#4016) by @benjaminhuth, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-21
- ▶ Chore: fix more sonarcloud issues (#4017) by @asalzburger, ✓ reviewed by @vincent89291, updated on 2025-01-21
- ➤ ↑ refactor!: Decouple stepping from navigation (#4039) by @andiwand, ✓ comment by @coderabbitai[bot], updated on 2025-01-21

acts-project/acts: Open PRs II

- ▶ \$\infty\$ feat: proto axis json converter (#4038) by @asalzburger, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-20
- ➤ îì ci: Spack (#3980)
 by @paulgessinger, ✓ reviewed by @stephenswat, updated on 2025-01-20
- ▶ \$\times\$ Stale fix: Output correct track objects in GSF refitting (#3999) by @benjaminhuth, ✓ reviewed by @andiwand, updated on 2025-01-19
- ▶ Chore: automated python requirements upgrades (#3924) by @github-actions[bot], ★ changes requested by @AJPfleger, updated on 2025-01-19
- ▶ \$\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
- ▶ \$\infty\$ chore: Add 'google-explicit-constructor' to clang-tidy config (#3972) by @paulgessinger, comment by @coderabbitai[bot], updated on 2025-01-17
- ▶ ↑ refactor: remove redundant logical in covariance helper (#4033) by @AJPfleger,review requested, updated on 2025-01-16
- ▶ \$\infty\$ feat: Update athena dump reader (#4011) by @benjaminhuth, \$\infty\$ comment by @coderabbitai[bot], updated on 2025-01-16

acts-project/acts: Open PRs III

- ▶ \$\times\$ feat!: Updates to GBTS for Athena Implementation (#3882) by @Rosie-Hasan, ✓ comment by @coderabbitai[bot], updated on 2025-01-15
- ▶ \$\tilde{\cappa}\$ refactor: 'ProtoLayer' can (optionally) hold mutable surfaces (#4030) by @paulgessinger, comment by @coderabbitai[bot], updated on 2025-01-15
- ▶ \$\instyle{\textbf{\textit{}}} \text{ feat(physmon): compare GX2F vs KF truth tracking (#3889)} by @AJPfleger, \$\sqrt{\text{\text{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
- ▶ ↑ refactor: Use detector element to check if surface is sensitive (detray plugin) (#3857) by @paulgessinger, ↑ no reviewer, updated on 2025-01-15
- ► \$\infty\$ refactor!: move source link creation, track state creation, measurement selection into a single unit outside of the CKF (#3825)
 - by @goetzgaycken, 🔽 comment by @goetzgaycken, updated on 2025-01-10
- ▶ \$\infty\$ feat: Structured logging (#3955) by @paulgessinger, comment by @coderabbitai[bot], updated on 2025-01-10

acts-project/acts: Open PRs IV

- ► \$\times\$ Stale feat: External surfaces for GSF (#3970) by @benjaminhuth, reviewed by @andiwand, updated on 2025-01-09
- ▶ \$\infty\$ feat: Conversion and chain code in traccc (#3656) by @stephenswat, \$\sqrt{\coloredge}\$ comment by @coderabbitai[bot], updated on 2025-01-09
- ► \$\frac{\capacita}{\capacita}\$ Stale refactor!: Make nlohmann::json a public dependency (#3954) by @paulgessinger, \(\sqrt{\capacita}\$ comment by @coderabbitai[bot], updated on 2025-01-08
- ▶ \$\infty\$ fix: compilation without geant4 (#4003) by @goetzgaycken, comment by @paulgessinger, updated on 2025-01-07
- ► 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, comment by @paulgessinger, updated on 2025-01-04
- ► \$\int\text{Stale}\$ chore: SonarCloud fixes, part 0 (#3942) by @asalzburger, comment by @coderabbitai[bot], updated on 2025-01-04

acts-project/acts: Open PRs V

- ► \$\times\$ Stale feat: bump detray version, add material tracer (#3755) by @asalzburger, \$\noting \text{comment}\$ comment by @coderabbitai[bot], updated on 2025-01-03
- ► Stale refactor!: material: 'double' for pathCorrection (#3920) by @AJPfleger, comment by @coderabbitai[bot], updated on 2025-01-03
- ▶ \$\times\$ Stale refactor: simplify track selection logic in AlignmentAlgorithm (#3934) by @AJPfleger, ✓ comment by @coderabbitai[bot], updated on 2025-01-02
- ► \$\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

acts-project/acts: Open PRs VI

- ► Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, ✓ comment by @coderabbitai[bot], updated on 2024-12-29
- ► \$\infty\$ Stale feat: Add a fastjet plugin (#3617) by @gagnonlg, \(\sqrt{comment} \) comment by @coderabbitai[bot], updated on 2024-12-29
- ▶ ↑ add misalignment decoration for DD4hep detector (#3891) by @Zequn-SUN, ✓ comment by @coderabbitai[bot], updated on 2024-12-22
- ▶ ↑ docs: Add troubleshooting section for Spack (#3881) by @stephenswat, ✓ comment by @coderabbitai[bot], updated on 2024-12-22
- by @ssdetlab, no reviewer, updated on 2025-01-21
- ▶ \$\times \quad \text{WIP} \text{ feat: move MaterialTrackWriting infrastructure to Core + first use of RNTuple (#4043) by @asalzburger, \textstyle comment by @asalzburger, updated on 2025-01-21
- ▶ \$\infty \text{WIP} \text{ feat: Add closest point and distance computation to 'SurfaceBounds' (#3990) by @andiwand, \$\sqrt{\coloredge}\$ comment by @paulgessinger, updated on 2025-01-21

acts-project/acts: Open PRs VII

- by @paulgessinger,review requested, updated on 2025-01-20
- by @andiwand, no reviewer, updated on 2025-01-17
- ▶ \$\frac{\sqrt{\text{WIP}}}{\text{wip}}\$ Stale feat: Marking Edgeholes during track finding (#3988) by @pbutti, \$\sqrt{\text{z}}\$ comment by @goetzgaycken, updated on 2025-01-17
- ▶ \$\times \text{WIP} Stale refactor!: Always return a magnetic field vector (#3951) by @andiwand, \text{ comment by @andiwand, updated on 2025-01-16}
- ▶ \$\infty \quad \text{WIP} \text{ fix: Prefer external surface candidates in Navigation (#3989)} by @andiwand, \$\sqrt{\cup}\$ comment by @benjaminhuth, updated on 2025-01-15
- by @AJPfleger, no reviewer, updated on 2025-01-15
- by @paulgessinger,review requested, updated on 2025-01-06

acts-project/acts: Open PRs VIII

- 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
- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale ci: Add extra build job with clang 19 (#3943) by @stephenswat, \$\sqrt{\sqrt{Q}}\$ comment by @coderabbitai[bot], updated on 2025-01-04
- ▶ ↑ WIP refactor: Some internal GSF refactorings (#2697) by @benjaminhuth, ★ changes requested by @andiwand, updated on 2025-01-03
- by @XiaocongAi, no reviewer, updated on 2025-01-03

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- by @paulgessinger, no reviewer, updated on 2025-01-01
- ▶ \$\frac{1}{200}\$ WIP Stale feat: Add GSF component momentum cut to stabilize fit (#2661) by @benjaminhuth, ✓ comment by @benjaminhuth, updated on 2024-12-30
- ► \$\times \quad \text{WIP} \quad \text{Stale} \quad \text{refactor!: Seed Finders create collection of 'Seed<external_spacepoint_t>' instead of 'Seed<Proxy<external_spacepoint_tn' (#3729) by @CarloVarni, \text{v} comment by @coderabbitai[bot], updated on 2024-12-28
- ▶ \$\times \text{WIP} \text{ Stale feat: Add per event timing (#3124)} by @CouthuresJeremy, \text{V} comment by @andiwand, updated on 2024-11-29}
- by @fredevb, no reviewer, updated on 2024-11-29

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- by @fredevb, no reviewer, updated on 2024-11-29
- ► \$\frac{\text{\$\square}}{\text{\$\square}}\$ \ \text{Stale} \ \text{feat: Added possibility to keep intermediate particles from PythiaGenerator WIP (#3414)} \ \text{by @pbutti, \text{\$\square}} \ \text{no reviewer, updated on 2024-11-29} \end{array}
- by @benjaminhuth, no reviewer, updated on 2024-11-29
- ▶ 1 WIP Stale chore: Bump minimum boost version to 1.78.0 (#3517) 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 2025-01-14 |

▶ • Potential FPE suppression/hiding in 'GsfUtils.hpp' (#4031) by @andiwand, updated on 2025-01-15

acts-project/acts: New stale Issues / PRs since 2025-01-14 | |

- Stale fix: Output correct track objects in GSF refitting (#3999) by @benjaminhuth, no reviewer, 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
- Stale Kalman Filter backward pass is using measurements twice without weights (#3994) by @andiwand, updated on 2025-01-19
- ▶ \$\ \cdot \text{WIP} \quad \text{Stale} \quad \text{refactor!: Always return a magnetic field vector (#3951)} by @andiwand, \(\bar{\Lambda} \) no reviewer, updated on 2025-01-16
- Stale Track EDM: Optimize dynamic columns in Vector backends (#3864) by @paulgessinger, updated on 2025-01-17
- by @AJPfleger, no reviewer, updated on 2025-01-15

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- ▶ \$\times\$ Stale fix: Output correct track objects in GSF refitting (#3999) by @benjaminhuth, \(\hat{\Lambda}\) no reviewer, updated on 2025-01-19
- ► \$\ \tag{\text{Stale}} \text{ feat: Add/activate reverse filter cov inflation for KF and GSF (#3996)} by @benjaminhuth, \(\text{no reviewer}, \(\text{updated on 2025-01-18} \)

- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale refactor!: Always return a magnetic field vector (#3951) by @andiwand, \$\hat{\chi}\$ no reviewer, updated on 2025-01-16
- by @AJPfleger, no reviewer, updated on 2025-01-15

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

- ► \$\frac{\cappa}{\cappa}\$ Stale feat: External surfaces for GSF (#3970) by @benjaminhuth, \(\hat{\cappa}\) no reviewer, updated on 2025-01-09
- ▶ 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
- Stale feat: Adding G4Trap converter in Geant4Converters (#3775) by @ldamenti, no reviewer, updated on 2025-01-04

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

- Stale feat: Add 'noexcept' specifier to 'Acts::Any' (#3743) by @benjaminhuth, no reviewer, updated on 2025-01-04
- ► \$\infty\$ Stale chore: SonarCloud fixes, part 0 (#3942) by @asalzburger, \(\begin{align*}\) no reviewer, updated on 2025-01-04
- ► \$\frac{\cappa}{\cappa}\$ Stale feat: bump detray version, add material tracer (#3755) by @asalzburger, \(\begin{array}{c}\hat{\cappa}\) no reviewer, updated on 2025-01-03
- ► Stale refactor!: material: 'double' for pathCorrection (#3920) by @AJPfleger, no reviewer, updated on 2025-01-03
- 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

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- ► Stale refactor: simplify track selection logic in AlignmentAlgorithm (#3934) by @AJPfleger, no reviewer, updated on 2025-01-02
- ▶ \$\frac{1}{100}\$ WIP Stale refactor: reduce complexity of highly nested blocks (#3633) by @AJPfleger, \(\hat{1}\) no reviewer, updated on 2025-01-01
- by @paulgessinger, no reviewer, updated on 2025-01-01
- by @benjaminhuth, no reviewer, updated on 2024-12-30
- ▶ \$\times\$ Stale feat: traccc plugin (conversion) (#3281) 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

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- 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
- ► \$\frac{\tag{5}}{\tag{5}}\$ \ Stale feat: traccc plugin refactor, traccc chain reconstruction only, and fixes (#3505) by @fredevb, \(\hat{\tag{1}}\) no reviewer, updated on 2024-12-29
- Stale feat: Add a fastjet plugin (#3617) by @gagnonlg, no reviewer, updated on 2024-12-29
- by @CarloVarni, no reviewer, 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_t\text{n}' (#3729) by @CarloVarni, \text{\text{n} 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

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- 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
- Stale test: some bounding box test cases fail on macOS ci (#3847)
 by @AJPfleger, updated on 2024-12-21
- 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 Function (#3813) by @coderabbitai[bot], updated on 2024-12-05

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

- by @CouthuresJeremy, no reviewer, updated on 2024-11-29
- by @fredevb, no reviewer, updated on 2024-11-29
- 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, \(\hrac{\sqrt{no}}{\sqrt{no}} \) no reviewer, updated on 2024-11-29
- ▶ \$\frac{\sqrt{\text{WIP}}}{\text{will}}\$ \ \text{Stale} \ \text{refactor: Move config files from ODD to Acts to ensure compatibility (#3407)} \ \text{by @benjaminhuth, \text{\text{\text{N}}} \ \text{no reviewer}, updated on 2024-11-29} \end{array}
- by @paulgessinger, no reviewer, updated on 2024-11-29

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

- by @benjaminhuth, no reviewer, updated on 2024-11-29
- ▶ **Stale** Common shared measurement computation? (#3618) by @gagnonlg, updated on 2024-10-26
- ► Stale TrackAtVertex trackWeight is not being written in IVF (#2149) by @andiwand, updated on 2024-09-27
- ▶ Stale Multiple context references are in flight for track fitters and finder (#3383) by @andiwand, updated on 2024-09-27
- ► 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

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- ▶ **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
- Stale Reproducibility test using hash checks for non-linear KF (#1246) by @paulgessinger, updated on 2024-06-25

- Stale Create volume restricted BFieldMap (#1659) by @asalzburger, updated on 2024-06-25

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- Stale Construct tracking geometry from python (#2173)
 by @andiwand, 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

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- 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
- by @paulgessinger, 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

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- Stale Bug: material map auto tuning only considers the "Default" mapping type (#2942) by @plariono, updated on 2024-05-17
- ▶ **Stale** bug: some dependencies in setup script wrong (#3014) by @AJPfleger, updated on 2024-05-17
- Stale perf: CKF 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

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- 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

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- 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 Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale Stale St**
- ► 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

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- 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 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

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- 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 Physmon throws many WARNINGs on Bethe-Heitler approximation (#1748) by @paulgessinger, 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: Unpredicatable navigation in layer with overlapping surface** (#1852) by @Corentin-Allaire, updated on 2023-03-25

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- 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: How-to (core) (#1422) by @paulgessinger, updated on 2022-11-23
- 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** 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 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