Pull request and issue summary for acts-project/acts

February 4, 2025

acts-project/acts: PRs merged between 2025-01-28 and 2025-02-04 I

- ▶ **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
- ▶ % refactor!: Move GBTS to experimental namespace (#4048) by @Rosie-Hasan, ✓ reviewed by @andiwand, merged on 2025-01-29
- ▶ fix: ScoreBasedAmbiguityResolution to avoid very high score. (#4052) by @Ragansu, ✓ reviewed by @Corentin-Allaire, merged on 2025-01-29
- ▶ feat: Allow tracksummary plots on detector subparts (#4058) by @benjaminhuth, reviewed by @andiwand, merged on 2025-01-29
- ▶ **fix: Sequencer run with 0 threads or 0 events** (#4053) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2025-01-29

acts-project/acts: PRs merged between 2025-01-28 and 2025-02-04 II

- ▶ ‰ fix: Write correct tracks to file for refitting, prevent FPE (#3999) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2025-01-30
- ► feat: Add TensorRT support for GNNs (#4016) by @benjaminhuth, ✓ reviewed by @andiwand, merged on 2025-01-30
- ▶ ‰ feat: Add chi2 cut option for outliers to KF fitter function (#4059) by @benjaminhuth, ✓ reviewed by @paulgessinger, merged on 2025-01-30
- ▶ **fix: EDM4hepReader sets number of hits on particles** (#4056) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2025-01-30
- ► feat: detray material collection (#4065) by @asalzburger, reviewed by @niermann999, merged on 2025-01-31
- ▶ chore: Fix clang-tidy config file format (#4062) by @paulgessinger, ✓ reviewed by @AJPfleger, merged on 2025-01-31
- ► fix: Remove unused SubspaceTests (#4063) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2025-01-31
- ► For refactor: remove redundant logical in covariance helper (#4033) by @AJPfleger, reviewed by @andiwand, merged on 2025-02-03

acts-project/acts: PRs merged between 2025-01-28 and 2025-02-04 III

- ► crefactor: simplify track selection logic in AlignmentAlgorithm (#3934) by @AJPfleger, reviewed by @andiwand, merged on 2025-02-03
- ► **fix: GeoModel recording again** (#4066) by @asalzburger, **v** reviewed by @andiwand, merged on 2025-02-04

acts-project/acts: Open PRs I

- ► \$\frac{1}{1}\$ chore: remove 'ProtoBinning' in favour of 'ProtoAxis' (#4046) by @asalzburger, \$\sqrt{2}\$ comment by @coderabbitai[bot], updated on 2025-02-04
- ► \(\) chore: update to newest traccc+detray+friends (#4068)
 by @asalzburger, \(\sqrt{\sqrt{\sqrt{reviewed}}} \) reviewed by @niermann999, updated on 2025-02-04
- ▶ \$\tilde{\capacity}\$ refactor: Move Affine to Isometry for Acts::Transform3 (#4055) by @pbutti, \$\nsime\colon\$ comment by @coderabbitai[bot], updated on 2025-02-04
- ▶ \$\infty\$ feat: Adding cuboid portal shell (#4047) by @ssdetlab, \$\square\$ comment by @coderabbitai[bot], updated on 2025-02-03
- ▶ Chore: automated python requirements upgrades (#3924) by @github-actions[bot], ★ changes requested by @AJPfleger, updated on 2025-02-02
- ▶ \$\infty\$ feat!: Updating the cuts in ScoreBased Solver to eta based cuts. (#4054) by @Ragansu, comment by @coderabbitai[bot], updated on 2025-01-31
- ► ↑ chore: readability-redundant-smartptr-get (#4064) by @paulgessinger, ↑ no reviewer, updated on 2025-01-31

acts-project/acts: Open PRs II

- ▶ \$\frac{1}{1}\$ feat: Add closest point and distance computation to 'SurfaceBounds' (#3990) by @andiwand, \$\sqrt{2}\$ comment by @andiwand, updated on 2025-01-31
- ➤ ↑ refactor!: Make constructors explicit (#3975) by @paulgessinger,review requested, updated on 2025-01-30
- ▶ (i: Spack (#3980) by @paulgessinger, ✓ comment by @paulgessinger, updated on 2025-01-30
- ▶ \$\text{\text{\$\geq}}\$ refactor: 'ProtoLayer' can (optionally) hold mutable surfaces (#4030) by @paulgessinger, \$\text{\$\sqrt{}}\$ comment by @paulgessinger, updated on 2025-01-29
- ▶ \$\times \text{refactor!: material: 'double' for pathCorrection (#3920)} by @AJPfleger, \$\times \text{comment by @coderabbitai[bot], updated on 2025-01-24}\$
- ▶ \$\int \text{fix: compilation without geant4} (#4003) by @goetzgaycken, \$\square\$ comment by @paulgessinger, updated on 2025-01-23

acts-project/acts: Open PRs III

- ► \$\frac{\tag{5}}{\tag{5}}\$ Stale add misalignment decoration for DD4hep detector (#3891) by @Zequn-SUN, \$\square\$/\$ comment by @coderabbitai[bot], updated on 2025-01-22
- ▶ \$\infty\$ refactor!: Decouple stepping from navigation (#4039) by @andiwand, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-21
- ▶ **|``\ build:** find Python after DD4hep to find the correct one (#4042) by @jmcarcell, **|\u00edc** no reviewer, updated on 2025-01-21
- ▶ \$\infty\$ chore: fix more sonarcloud issues (#4017) by @asalzburger, \$\noting \text{comment by @coderabbitai[bot]}\$, updated on 2025-01-21
- ▶ \$\instructor\text{ 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, comment by @coderabbitai[bot], updated on 2025-01-16
- ▶ \$\infty\$ feat(physmon): compare GX2F vs KF truth tracking (#3889) by @AJPfleger, \$\infty\$ comment by @coderabbitai[bot], updated on 2025-01-15

acts-project/acts: Open PRs IV

- ▶ \$\tilde{\text{ \text{ \text{ feat: Adding efficiency vs production radius to output root files (Revision of PR #3539) (#3981) by @delitez, \$\tilde{\text{ \text{ 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
- ▶ \$\times\$ feat: Conversion and chain code in traccc (#3656) by @stephenswat, \$\times\$ 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
- ► \$\times\$ Stale feat: Adding G4Trap converter in Geant4Converters (#3775) by @ldamenti, \$\square\$ comment by @coderabbitai[bot], updated on 2025-01-04
- ► \$\times\$ Stale feat: Add 'noexcept' specifier to 'Acts::Any' (#3743) by @benjaminhuth, \$\square\$ 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
- ► \$\int\text{Stale}\$ feat: traccc plugin (conversion) (#3281) by @fredevb, \(\square\text{comment} \) 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
- ► 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, comment by @coderabbitai[bot], updated on 2024-12-29

acts-project/acts: Open PRs VI

- by @andiwand, no reviewer, updated on 2025-02-04
- ▶ ↑ WIP refactor!: Disentangle stepper state creation and initialization (#4069) by @andiwand, ↑ no reviewer, updated on 2025-02-04
- ▶ 1 WIP feat!: Allow propagator initialization to fail (#4036) by @andiwand, ↑ no reviewer, updated on 2025-02-04
- ▶ 1 WIP refactor!: Merge curvilinear track params into bound track params (#4061) by @andiwand, ↑ no reviewer, updated on 2025-01-30
- ▶ ↑ 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
- ► \$\infty \quad \text{WIP} \quad \text{Stale} \quad \text{feat: Marking Edgeholes during track finding (#3988)} \quad \text{by @pbutti, } \neq \text{comment by @goetzgaycken, 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{\sqrt{\text{comment}}}\$ 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
- by @andiwand, no reviewer, 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, \text{ 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

- ▶ \$\ \cdots \quad \text{WIP} \quad \text{Stale} \quad \text{feat: Add per event timing } (#3124) \quad \text{by @CouthuresJeremy, \$\sqrt{\cdot}\$ comment by @andiwand, updated on 2024-11-29}
- by @fredevb, no reviewer, updated on 2024-11-29
- ▶ [↑ 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

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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
- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale feat: Marking Edgeholes during track finding (#3988) by @pbutti, \(\begin{array}{c}\no reviewer\), updated on 2025-01-17
- Stale Track EDM: Optimize dynamic columns in Vector backends (#3864) by @paulgessinger, updated on 2025-01-17
- by @andiwand, no reviewer, updated on 2025-01-16
- by @AJPfleger, no reviewer, updated on 2025-01-15
- Stale refactor!: Make nlohmann::json a public dependency (#3954) by @paulgessinger, no reviewer, updated on 2025-01-08

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

- ▶ **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
- ▶ \$\frac{1}{100}\$ WIP Stale feat: Adding efficiency vs production radius to output root files (#3539) by @AichaMattouhi, \$\hbar{1}\$ no reviewer, updated on 2025-01-05
- ► Stale feat: Adding G4Trap converter in Geant4Converters (#3775) by @ldamenti, no reviewer, updated on 2025-01-04
- ► \$\times\$ Stale feat: Add 'noexcept' specifier to 'Acts::Any' (#3743) by @benjaminhuth, \(\hat{\Lambda}\) 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

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

- ► Stale feat: bump detray version, add material tracer (#3755) by @asalzburger, ↑ no reviewer, updated on 2025-01-03
- by @XiaocongAi, no reviewer, updated on 2025-01-03

- ▶ \$\frac{\sqrt{\text{WIP}}}{\text{wWIP}}\$ Stale refactor: reduce complexity of highly nested blocks (#3633) by @AJPfleger, \text{\text{no}} 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

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

- 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
- ► \$\frac{\cappa}{\cappa}\$ Stale fix: detray plugin (cmake flags, CI, and compile errors) (#3363) by @fredevb, \(\hat{\cappa}\) 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
- ► 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

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

- ► \$\times \text{WIP} \text{ Stale} \text{ refactor!: Seed Finders create collection of 'Seed<external_spacepoint_t>' instead of 'Seed<Proxy<external_spacepoint_t\n' (#3729) by @CarloVarni, \text{\text{\text{no reviewer}, updated on 2024-12-28}}
- ▶ **Stale nHoles different in KF and GX2F** (#3906) by @AJPfleger, updated on 2024-12-25
- 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

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- ► 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 @fredevb, no reviewer, updated on 2024-11-29
- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale build: physmon for traccc chains (host and cuda) (#3403) by @fredevb, \text{\lambda} no reviewer, updated on 2024-11-29

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- ▶ ↑ WIP Stale refactor: Move config files from ODD to Acts to ensure compatibility (#3407) 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 bug: navigation suggests 'pathCorrection=inf' on cylinderSurface (#3267) by @AJPfleger, updated on 2024-10-31
- 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

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- 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
- ▶ O Stale Proposal: surface and portal navigation (including target surfaces) for Gen3 (#3526) by @asalzburger, updated on 2024-09-21
- ► 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
- Stale [bug] Off axis endcap with dd4hep plugin. (#942) by @whit2333, updated on 2024-06-26

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- ▶ **Ostale 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 EstimateTrackParamsFromSeed does not use time of measurement (#2136) by @andiwand, updated on 2024-06-25
- Stale Construct tracking geometry from python (#2173) by @andiwand, updated on 2024-06-25

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- ▶ 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 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 Detailed timing per event (#1700) by @CouthuresJeremy, updated on 2024-05-25

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- 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: some dependencies in setup script wrong (#3014) by @AJPfleger, updated on 2024-05-17

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- ► Stale Some 'toStream' implementations change the state of 'std::ostream' (#3079) by @andiwand, updated on 2024-05-04
- ► 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

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- 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 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 FPE: AMVF keepNewVertex** (#2590) by @andiwand, updated on 2023-11-26

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- ▶ **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
- 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

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- 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

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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
- Stale Optimal seeding parameters for a detector (#1699) by @CouthuresJeremy, updated on 2023-01-05
- Stale Documentation update: How-to (core) (#1422) by @paulgessinger, updated on 2022-11-23

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- ► 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 Ambiguous perigees with low momentum (#1386) by @andiwand, updated on 2022-09-20
- ▶ **Stale** Some writers performs their writes in the destructor (#881) by @paulgessinger, updated on 2022-08-11
- 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