Pull request and issue summary for acts-project/acts

September 10, 2024

- ► **refactor: Write smoothed states in GX2F** (#3584)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-09-03
- ► **refactor!: Remove 'Utilities/detail/Subspace.hpp'** (#3589)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-09-03
- ► **fix: Allow resetting reference surface in Track EDM** (#3586)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-04
- ► **refactor: Rework tracklet handling in Examples track finding** (#3587)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-04
- ► **feat: Memory dense 'MeasurementContainer' for Examples** (#3528)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2024-09-04
- ► **ci(sonarcloud): fix shallow clone** (#3590)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-09-04
- ► **feat: detray geometry/material conversion in examples** (#3579)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-04
- ► **refactor!: Template algorithms on track container frontend 'TrackContainer'** (#3193)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-09-04

acts-project/acts: PRs merged between 2024-09-03 and 2024-09-10 II

- ▶ **refactor!: Remove 'EventData/TrackHelpers.hpp'** (#3588)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-09-05

- ▶ **fix!: make material validity checks and construction explicit** (#3494)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-09-05

- ▶ **refactor: Write unbiased states only for smoothed in 'RootTrackStatesWriter'** (#3561)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-09-05

- ▶ **refactor!: Remove deprecated API** (#3591)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-09-06

- ▶ **feat: Allow user to supply root branch to Core CKF** (#3534)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-06

- ▶ **fix: remove pre-C++20 'std::identity' implementation** (#3599)
  by @AJPfleger, ✅ reviewed by @benjaminhuth, merged on 2024-09-09

- ▶ **refactor: Volume holds bounds as mutable** (#3595)
  by @paulgessinger, ✅ reviewed by @stephenswat, merged on 2024-09-09

- ▶ **refactor!: path handling to use 'std::filesystem'** (#3308)
  by @AJPfleger, ✅ reviewed by @stephenswat, merged on 2024-09-09

- **refactor!: Replace 'EigenStepper' extension list with single extension** (#2865)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2024-09-09
- **fix: Stitch tracks correctly after second pass in Examples Track Finding** (#3597)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-09
- **refactor: replace 'Acts::min_max' with 'std::ranges::minmax_element'** (#3601)
  by @AJPfleger, ✅ reviewed by @stephenswat, merged on 2024-09-10

acts-project/acts: Open PRs I

- ⑂ **refactor!: Rename 'EigenStepper' dense extension** (#3603)
  by @andiwand, ✅ reviewed by @AJPfleger, updated on 2024–09–10

- ⑂ **feat!: Track-EDM like implementation for the space points, to be used in the seeding** (#3432)
  by @CarloVarni, ⚠️ **no reviewer**, updated on 2024–09–10

- ⑂ **refactor: set convertMaterial as configurable** (#3604)
  by @galocco, ⚠️ **no reviewer**, updated on 2024–09–10

- ⑂ **refactor!: Fuse 'Actor' and 'Aborter'** (#3573)
  by @andiwand, ✅ comment by @stephenswat, updated on 2024–09–10

- ⑂ **refactor: use 'std::ranges::sort' and 'reverse'** (#3596)
  by @AJPfleger, ✅ reviewed by @stephenswat, updated on 2024–09–10

- ⑂ **refactor: modernise GeometryHierarchyMap** (#3594)
  by @AJPfleger, ✅ reviewed by @stephenswat, updated on 2024–09–10

- ⑂ **refactor: use 'std::ranges::all_of', 'any_of', 'none_of'** (#3593)
  by @AJPfleger, ✅ reviewed by @stephenswat, updated on 2024–09–10

- ⑂ **refactor!: Return all track states from Core CKF** (#3391)
  by @andiwand, review requested, updated on 2024–09–10

acts-project/acts: Open PRs II

- ▶ ⑂ **feat: add counters to propagation summary** (#3602)
  by @asalzburger,review requested, updated on 2024-09-10

- ▶ ⑂ **fix!: Use 'ActsScalar' in binning tools** (#3482)
  by @stephenswat, ✅ comment by @stephenswat, updated on 2024-09-10

- ▶ ⑂ **refactor: update 'to_array'** (#3600)
  by @AJPfleger, ✅ reviewed by @stephenswat, updated on 2024-09-10

- ▶ ⑂ **refactor: add C++23 'std::ranges::contains' place holder** (#3598)
  by @AJPfleger, ✅ reviewed by @stephenswat, updated on 2024-09-10

- ▶ ⑂ Stale **refactor!: SourceLink setting only via rvalue reference** (#3488)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-09-08

- ▶ ⑂ Stale **feat: allow bare Surface pointers to be written to JSON** (#3493)
  by @asalzburger, ✅ comment by @paulgessinger, updated on 2024-09-07

- ▶ ⑂ **fix: Further fixes to detray plugin** (#3563)
  by @stephenswat, ✅ reviewed by @andiwand, updated on 2024-09-07

- ▶ ⑂ **refactor!: 'VolumeBounds' becomes a scoped enum** (#3513)
  by @paulgessinger, ✅ reviewed by @asalzburger, updated on 2024-09-04

acts-project/acts: Open PRs III

- ⑂ `Stale` **feat: traccc plugin (conversion)** (#3281)
  by @fredevb, ✅ comment by @paulgessinger, updated on 2024-08-31

- ⑂ `Stale` **fix: detray plugin (cmake flags, CI, and compile errors)** (#3363)
  by @fredevb, ✅ comment by @EleniXoch, updated on 2024-08-31

- ⑂ **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ✅ comment by @Corentin-Allaire, updated on 2024-08-30

- ⑂ `Stale` **feat!: (fix + chore) streamline nSegments usage** (#3419)
  by @asalzburger, ✅ comment by @asalzburger, updated on 2024-08-28

- ⑂ `Stale` **feat: Introduce the usage of the geomodel converters for the Muon System** (#3348)
  by @dimitra97, ✅ comment by @dimitra97, updated on 2024-08-23

- ⑂ **ci: Reenable some ExaTrkX tests** (#3395)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-08-22

- ⑂ **fix: Require TBB to be found by cmake** (#3507)
  by @benjaminhuth, ✅ reviewed by @timadye, updated on 2024-08-22

- ▶ ⑂ Stale **refactor: Lift GenericDetector to a Plugin** (#3425)
  by @benjaminhuth,review requestedreview requested, updated on 2024-08-21

- ▶ ⑂ **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters** (#3268)
  by @Matthewharri, ✅ comment by @Matthewharri, updated on 2024-08-19

- ▶ ⑂ Stale **feat: traccc chain in examples (common chain logic and CPU chain)** (#3320)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-15

- ▶ ⑂ **feat: traccc plugin refactor, traccc chain reconstruction only, and fixes** (#3505)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-14

- ▶ ⑂ Stale **style: Update clang-format to v18** (#3319)
  by @stephenswat, ⚠ **no reviewer**, updated on 2024-07-21

- ▶ ⑂ Stale **feat: introduction obj simhit writer** (#3180)
  by @asalzburger, ⚠ **no reviewer**, updated on 2024-06-15

- ▶ ⑂ 🚧 WIP **refactor: Changed the GeoModelToDetectorVolume to be able to return Acts::Volumes** (#3576)
  by @Berggren-Jonas, ✅ reviewed by @noemina, updated on 2024-09-09

acts-project/acts: Open PRs V

- ⑂ 🚧 WIP **feat: generalized conversion of FullPhysicalVolume** (#3585)
  by @Berggren-Jonas, ✅ comment by @Berggren-Jonas, updated on 2024-09-09

- ⑂ 🚧 WIP **perf: Use MBF smoother by default in 'TrackHelpers' in Examples track finding** (#3582)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-08

- ⑂ 🚧 WIP `Stale` **refactor: Rework detector handling in Examples** (#3498)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-07

- ⑂ 🚧 WIP **feat: Allow volume constrain for propagation** (#3470)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-06

- ⑂ 🚧 WIP **refactor!: Decouple navigation and stepping** (#3449)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-06

- ⑂ 🚧 WIP **fix: added GeoShapeSubtraction converter for the failing conversion of RPCs to SensitiveSurface** (#3592)
  by @Berggren-Jonas, ⚠️ **no reviewer**, updated on 2024-09-05

acts-project/acts: Open PRs VI

- ⑂ 🚧 **WIP** **feat: detray plugin surface grids** (#3429)
  by @EleniXoch, ✅ comment by @EleniXoch, updated on 2024-09-04

- ⑂ 🚧 **WIP** **feat: GeoModel plugin changes for ITk building.** (#3519)
  by @benjaminhuth, ✅ comment by @paulgessinger, updated on 2024-09-03

- ⑂ 🚧 **WIP** Stale **feat(geometry): Allow operator« on surfaces without detector elements** (#3467)
  by @paulgessinger, ✅ comment by @paulgessinger, updated on 2024-08-31

- ⑂ 🚧 **WIP** **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ✅ comment by @asalzburger, updated on 2024-08-29

- ⑂ 🚧 **WIP** **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ✅ comment by @paulgessinger, updated on 2024-08-29

- ⑂ 🚧 **WIP** **feat: Gen 3 portal shells** (#3564)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-08-28

- ⑂ 🚧 **WIP** **ci: Download dependencies as tarball** (#3520)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-08-27

acts-project/acts: Open PRs VII

- 🔀 **WIP** **feat: Add statistics to propagation** (#3450)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2024-08-22

- 🔀 **WIP** **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, review requested, updated on 2024-08-22

- 🔀 **WIP** **draft: Gauss vertex seeding with time** (#3491)
  by @CENcll, ✅ comment by @andiwand, updated on 2024-08-22

- 🔀 **WIP** Stale **feat: Added possibility to keep intermediate particles from PythiaGenerator WIP** (#3414)
  by @pbutti, ⚠️ **no reviewer**, updated on 2024-08-22

- 🔀 **WIP** **chore: Bump minimum boost version to 1.78.0** (#3517)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-08-20

- 🔀 **WIP** Stale **refactor: Rework physics performance monitoring for Examples** (#3359)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-08-17

- 🔀 **WIP** Stale **refactor: Move config files from ODD to Acts to ensure compatibility** (#3407)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-08-17

- 🚧 WIP Stale **build: physmon for traccc chains (host and cuda)** (#3403)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-16

- 🚧 WIP Stale **feat: traccc cuda example** (#3372)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-16

- 🚧 WIP Stale **refactor: Some internal GSF refactorings** (#2697)
  by @benjaminhuth, ❌ changes requested by @andiwand, updated on 2024-07-21

- 🚧 WIP Stale **feat: Add per event timing** (#3124)
  by @CouthuresJeremy, ✅ comment by @andiwand, updated on 2024-07-11

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

- 🔀 **WIP** Stale **refactor: Rework detector handling in Examples** (#3498)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-07

- 🔀 Stale **feat: allow bare Surface pointers to be written to JSON** (#3493)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-09-07

- 🔀 Stale **refactor!: SourceLink setting only via rvalue reference** (#3488)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-09-08

- ⊙ Stale **Bug: _acts_dfelibs_version unset in CMakeLists.txt** (#3457)
  by @wdconinc, updated on 2024-09-05

- ⊙ Stale **'GlobalChiSquareFitter' produces parameters in wrong volume** (#3444)
  by @andiwand, updated on 2024-09-05

- ▶ ⟳ `Stale` **refactor!: SourceLink setting only via rvalue reference** (#3488)
  by @paulgessinger, ⚠ **no reviewer**, updated on 2024-09-08

- ▶ ⟳ `🚧 WIP` `Stale` **refactor: Rework detector handling in Examples** (#3498)
  by @andiwand, ⚠ **no reviewer**, updated on 2024-09-07

- ▶ ⟳ `Stale` **feat: allow bare Surface pointers to be written to JSON** (#3493)
  by @asalzburger, ⚠ **no reviewer**, updated on 2024-09-07

- ▶ ⊙ `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` **feat: traccc plugin (conversion)** (#3281)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-31

- ▶ ⟳ `Stale` **fix: detray plugin (cmake flags, CI, and compile errors)** (#3363)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-31

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

▶ 🔀 `🚧 WIP` `Stale` **feat(geometry): Allow operator« on surfaces without detector elements** (#3467)
by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-08-31

▶ 🔀 `Stale` **feat!: (fix + chore) streamline nSegments usage** (#3419)
by @asalzburger, ⚠️ **no reviewer**, updated on 2024-08-28

▶ 🔀 `Stale` **feat: Introduce the usage of the geomodel converters for the Muon System** (#3348)
by @dimitra97, ⚠️ **no reviewer**, updated on 2024-08-23

▶ 🔀 `🚧 WIP` `Stale` **feat: Added possibility to keep intermediate particles from PythiaGenerator WIP** (#3414)
by @pbutti, ⚠️ **no reviewer**, updated on 2024-08-22

▶ 🔀 `Stale` **refactor: Lift GenericDetector to a Plugin** (#3425)
by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-08-21

▶ 🔀 `🚧 WIP` `Stale` **refactor: Rework physics performance monitoring for Examples** (#3359)
by @andiwand, ⚠️ **no reviewer**, updated on 2024-08-17

▶ 🔀 `🚧 WIP` `Stale` **refactor: Move config files from ODD to Acts to ensure compatibility** (#3407)
by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-08-17

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

- ▶ 🎋 `WIP` `Stale` **build: physmon for traccc chains (host and cuda)** (#3403)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024–08–16

- ▶ 🎋 `WIP` `Stale` **feat: traccc cuda example** (#3372)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024–08–16

- ▶ 🎋 `Stale` **feat: traccc chain in examples (common chain logic and CPU chain)** (#3320)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024–08–15

- ▶ ⊙ `Stale` **Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment** (#1778)
  by @tboldagh, updated on 2024–07–24

- ▶ 🎋 `WIP` `Stale` **refactor: Some internal GSF refactorings** (#2697)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-07-21

- ▶ 🎋 `Stale` **style: Update clang-format to v18** (#3319)
  by @stephenswat, ⚠️ **no reviewer**, updated on 2024–07–21

- ▶ 🎋 `WIP` `Stale` **feat: Add per event timing** (#3124)
  by @CouthuresJeremy, ⚠️ **no reviewer**, updated on 2024–07–11

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

- ▶ ⊙ Stale **Project build flags are difficult to control (2024.05.29.)** (#3231)
  by @krasznaa, updated on 2024-07-04

- ▶ ⊙ Stale **[bug] Off axis endcap with dd4hep plugin.** (#942)
  by @whit2333, updated on 2024-06-26

- ▶ ⊙ Stale **Debug Information in Acts Seeder** (#944)
  by @osbornjd, updated on 2024-06-26

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

- ▶ ⊙ Stale **Documentation update: Core** (#1418)
  by @paulgessinger, updated on 2024-06-25

- ▶ ⊙ Stale **Documentation: hints for debugging** (#1463)
  by @timadye, updated on 2024-06-25

- ▶ ⊙ Stale **Add Primary Vertex Label to tracks** (#1544)
  by @Lucas-Borgna, updated on 2024-06-25

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

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- ▶ ⊙ Stale **Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON** (#1818)
  by @DraTeots, updated on 2024-06-25

- ▶ ⊙ Stale **LCG compatibility** (#2054)
  by @paulgessinger, updated on 2024-06-25

- ▶ ⊙ Stale **EstimateTrackParamsFromSeed does not use time of measurement** (#2136)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ Stale **Construct tracking geometry from python** (#2173)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ Stale **Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in'** (#2216)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ Stale **Bug: not all tracks have fittedMomentum** (#2364)
  by @felix-russo, updated on 2024-06-25

- ▶ ⊙ Stale **Bug: AMVF 'deleteLastVertex' might be wrong** (#2380)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ Stale **[Bug] Fatras can't seem to handle energy loss for electrons on thin surfaces** (#2498)
  by @janheinri, updated on 2024-06-25

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

- ▶ ⊙ 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

- ▶ ⊙ 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 **feat: introduction obj simhit writer** (#3180)
  by @asalzburger, ⚠ **no reviewer**, updated on 2024-06-15

- ▶ ⊙ Stale **EDM Memory usage** (#1516)
  by @paulgessinger, updated on 2024-05-25

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

- ▶ 🏳️ 🚧 WIP Stale **feat: Add GSF component momentum cut to stabilize fit** (#2661)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-05-25

- ▶ ⊙ Stale **Question: Set a different value of eta range using ODD** (#2776)
  by @rubihason, updated on 2024-05-25

- ▶ ⊙ Stale **Write Fatras documentation** (#2796)
  by @andiwand, updated on 2024-05-25

- ▶ ⊙ Stale **bug: documentation always builds in '<source>'** (#2798)
  by @AJPfleger, updated on 2024-05-25

- ▶ ⊙ Stale **bug: IVF is throwing errors in ODD full chain** (#3120)
  by @andiwand, updated on 2024-05-18

- ▶ ⊙ Stale **Documentation on geometry misalignments** (#2940)
  by @paulgessinger, updated on 2024-05-17

- ▶ ⊙ Stale **Bug: material map auto tuning only considers the "Default" mapping type** (#2942)
  by @plariono, updated on 2024-05-17

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

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

- ▶ ⊙ Stale **perf: CKF measurement selector runs after track state creation** (#3081)
  by @andiwand, updated on 2024-05-05

- ▶ ⊙ Stale **perf: CKF general** (#3082)
  by @andiwand, updated on 2024-05-05

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

- ▶ ⊙ Stale **HepMC plugin looks incomplete** (#3050)
  by @andiwand, updated on 2024-04-26

- ▶ ⊙ Stale **'EigenStepper' (and extensions) cannot be easily extended for dense environment covariance transport** (#2868)
  by @andiwand, updated on 2024-03-20

- ▶ ⊙ Stale **'Stepper' and 'Navigator' cannot be configured by 'PropagatorOptions'** (#2861)
  by @andiwand, updated on 2024-02-09

- ▶ ⊙ Stale **Fitters use 'PropagatorPlainOptions' and not 'PropagatorOptions'** (#2862)
  by @andiwand, updated on 2024-02-09

- ▶ ⊙ Stale **'AdaptiveGridTrackDensity' has a hidden 'd0' cut** (#2840)
  by @andiwand, updated on 2024-01-17

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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 @janheinri, 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

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- ▶ ⊙ 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

- ▶ ⊙ 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 lxplus** (#1819)
  by @CarloVarni, updated on 2023-05-09

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- ▶ ⊙ 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
- ▶ ⊙ Stale **Bug: Unpredicatable navigation in layer with overlapping surface** (#1852)
  by @Corentin-Allaire, updated on 2023-03-25
- ▶ ⊙ Stale **Make central minimum track momentum threshold** (#1761)
  by @paulgessinger, updated on 2023-01-21
- ▶ ⊙ Stale **Optimal seeding parameters for a detector** (#1699)
  by @CouthuresJeremy, updated on 2023-01-05

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- ▶ ⊙ Stale **Particle smearing assertion with Geant4** (#1603)
  by @benjaminhuth, updated on 2022-12-21

- ▶ ⊙ Stale **Documentation update: Examples** (#1420)
  by @paulgessinger, updated on 2022-11-23

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

- ▶ ⊙ Stale **Documentation update: Plugins** (#1421)
  by @paulgessinger, updated on 2022-10-22

- ▶ ⊙ Stale **Vertexing produces vertex candidates that are unreasonable** (#1361)
  by @paulgessinger, updated on 2022-10-22

- ▶ ⊙ Stale **Optionally have the vertex finding recalculate perigee parameters relative to consistent reference** (#1482)
  by @paulgessinger, updated on 2022-10-01

- ▶ ⊙ Stale **Ambiguous perigees with low momentum** (#1386)
  by @andiwand, updated on 2022-09-20

- ▶ ⊙ Stale **Fatras: Bethe-Heitler calculation wrong?** (#1437)
  by @asalzburger, updated on 2022-09-20

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- ▶ ⊙ 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

- ▶ ⊙ 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

- ▶ ⊙ Stale **BoundingBox tests fail on double precision** (#752)
  by @paulgessinger, updated on 2021-11-04