Pull request and issue summary for acts-project/acts

October 1, 2024

- ► **refactor: Remove Sequencer dataflow override** (#3625)
  by @paulgessinger, ✅ reviewed by @asalzburger, merged on 2024-09-24

- ► **refactor!: Fuse 'Actor' and 'Aborter'** (#3573)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-09-24

- ► **chore: update ACTSVG version** (#3643)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-24

- ► **chore: update to detray version v0.75.3** (#3646)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-25

- ► **feat: add Detray surface grid converter** (#3608)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-25

- ► **refactor!: converge to naming 'sourceLink'** (#3647)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-09-25

- ► **refactor: Remove MPL library** (#3642)
  by @stephenswat, ✅ reviewed by @andiwand, merged on 2024-09-25

- ► **fix: Reject outliers while trimming track states in Core CKF** (#3644)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-25

acts-project/acts: PRs merged between 2024-09-24 and 2024-10-01 II

- ▶ ⦗⦘ **feat: Add measurement emplace functions** (#3627)
  by @stephenswat, ✅ reviewed by @andiwand, merged on 2024-09-26

- ▶ ⦗⦘ **fix: Reject material states when no measurements are found yet in Core CKF** (#3648)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-09-26

- ▶ ⦗⦘ **feat: added new SVG functionality** (#3649)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-26

- ▶ ⦗⦘ **perf: Use sympy generated transport jacobians for sympy covariance transport** (#3650)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-09-26

- ▶ ⦗⦘ **fix: added GeoShapeSubtraction converter for the failing conversion of RPCs to SensitiveSurface** (#3592)
  by @Berggren-Jonas, ✅ reviewed by @dimitra97, merged on 2024-09-26

- ▶ ⦗⦘ **ci: Bump core count in GitLab CI to 8** (#3651)
  by @paulgessinger, ✅ reviewed by @AJPfleger, merged on 2024-09-26

- ▶ ⦗⦘ **fix: kf+gsf: correct hole-tagging for edge case** (#3637)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-09-26

acts-project/acts: PRs merged between 2024-09-24 and 2024-10-01 III

- ▶ **feat!: Track-EDM like implementation for the space points, to be used in the seeding** (#3432)
  by @CarloVarni, ✅ reviewed by @andiwand, merged on 2024-09-27

- ▶ **feat: allow detray sterile/non-sterile propagation** (#3652)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-09-27

- ▶ **refactor!: Return all track states from Core CKF** (#3391)
  by @andiwand, ✅ reviewed by @timadye, merged on 2024-09-27

- ▶ **refactor: remove redundant 'operator!=', introduce 'operator<=>'** (#3660)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-09-29

- ▶ **refactor: remove 'inline' from 'constexpr' functions for clarity** (#3659)
  by @AJPfleger, ✅ reviewed by @stephenswat, merged on 2024-09-29

- ▶ **fix: replace asctime with 'strftime' for safer date formatting** (#3658)
  by @AJPfleger, ✅ reviewed by @stephenswat, merged on 2024-09-29

- ▶ **feat: Support seed from N space points** (#3645)
  by @CarloVarni, ✅ reviewed by @andiwand, merged on 2024-09-30

- ▶ **feat: enable geant4 propagation xcheck** (#3657)
  by @asalzburger, ✅ reviewed by @andiwand, merged on 2024-09-30

acts-project/acts: PRs merged between 2024-09-24 and 2024-10-01 IV

- ► **refactor: use 'contains' for maps and sets** (#3670)
  by @AJPfleger, ✅ reviewed by @asalzburger, merged on 2024-09-30

- ► **feat: adding possibility to read flat surface container** (#3668)
  by @asalzburger, ✅ reviewed by @AJPfleger, merged on 2024-09-30

- ► **build: Use 'patch' to apply patch for Annoy** (#3667)
  by @paulgessinger, ✅ reviewed by @stephenswat, merged on 2024-10-01

- ► **test(gx2f): remove ToyDetectorYdirection relic** (#3669)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-10-01

- ► **ci: Require Sonar Analysis** (#3663)
  by @paulgessinger, ✅ reviewed by @stephenswat, merged on 2024-10-01

- ► **refactor: modernise type traits** (#3655)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-10-01

- ► **refactor!: Remove mean reduction from 'MultiEigenStepperLoop'** (#3671)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2024-10-01

- ► **build: Use tarball download for Annoy** (#3672)
  by @paulgessinger, ✅ reviewed by @benjaminhuth, merged on 2024-10-01

acts-project/acts: Open PRs I

- ▶ 🔀 **refactor: Enhance 'RootTrackParameterWriter' with residuals and pulls** (#3666)
  by @andiwand, ✅ reviewed by @AJPfleger, updated on 2024-10-01

- ▶ 🔀 **refactor: Removed maxHits condition from ScoreBasedAmbiguitySolver** (#3676)
  by @Ragansu, ✅ reviewed by @Corentin-Allaire, updated on 2024-10-01

- ▶ 🔀 **chore: update license header** (#3623)
  by @AJPfleger, ✅ comment by @AJPfleger, updated on 2024-10-01

- ▶ 🔀 **feat: Add Clusterization With Time (second try)** (#3674)
  by @CarloVarni, ⚠️ **no reviewer**, updated on 2024-10-01

- ▶ 🔀 **feat(geo): TrackingVolume gets portal storage** (#3673)
  by @paulgessinger, ✅ reviewed by @andiwand, updated on 2024-10-01

- ▶ 🔀 **feat: Gen 3 portal shells** (#3564)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-10-01

- ▶ 🔀 **feat(geo): TrackingVolume gets surface storage** (#3675)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-10-01

- ▶ 🔀 **refactor: set convertMaterial as configurable** (#3604)
  by @galocco, ✅ reviewed by @asalzburger, updated on 2024-10-01

acts-project/acts: Open PRs II

- ▶ ⑂ **feat: Conversion and chain code in traccc** (#3656)
  by @stephenswat, ✅ comment by @asalzburger, updated on 2024-09-30

- ▶ ⑂ **feat: Add support for Timed Clusterization** (#3654)
  by @CarloVarni, review requested, updated on 2024-09-30

- ▶ ⑂ **refactor: Unify proxy iterator types** (#3664)
  by @stephenswat, ❌ changes requested by @andiwand, updated on 2024-09-30

- ▶ ⑂ **feat!: Add a radius bin to the grid** (#3662)
  by @CarloVarni, ⚠️ **no reviewer**, updated on 2024-09-30

- ▶ ⑂ **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ✅ comment by @Corentin-Allaire, updated on 2024-09-27

- ▶ ⑂ **fix(gx2f): new error 'UsedUnreachableMeasurements'** (#3653)
  by @AJPfleger, review requested, updated on 2024-09-27

- ▶ ⑂ **feat: traccc plugin refactor, traccc chain reconstruction only, and fixes** (#3505)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-09-26

- ▶ ⑂ **feat: Allow volume constrain for propagation** (#3470)
  by @andiwand, ✅ comment by @andiwand, updated on 2024-09-25

acts-project/acts: Open PRs III

- ▶ ⑂ **perf: Use MBF smoother by default in 'TrackHelpers' in Examples track finding** (#3582)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2024-09-25

- ▶ ⑂ Stale **ci: Reenable some ExaTrkX tests** (#3395)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-09-21

- ▶ ⑂ Stale **fix: Require TBB to be found by cmake** (#3507)
  by @benjaminhuth, ✅ reviewed by @timadye, updated on 2024-09-21

- ▶ ⑂ **refactor: modernise map utils** (#3615)
  by @AJPfleger, ✅ comment by @andiwand, updated on 2024-09-20

- ▶ ⑂ Stale **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters** (#3268)
  by @Matthewharri, ✅ comment by @Matthewharri, updated on 2024-09-18

- ▶ ⑂ **feat: Add a fastjet plugin** (#3617)
  by @gagnonlg, ⚠️ **no reviewer**, updated on 2024-09-17

- ▶ ⑂ **refactor: use 'std::ranges:find', 'find_if', 'find_if_not'** (#3614)
  by @AJPfleger, ✅ comment by @paulgessinger, updated on 2024-09-17

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

acts-project/acts: Open PRs IV

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

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

- ▶ 🔀 `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

- ▶ 🔀 `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

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

acts-project/acts: Open PRs V

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

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

- ▶ ⑂ `🚧 WIP` **fix: Correct initial 'q/p' covariance term in 'TrackParamsEstimationAlgorithm' in Examples** (#3665)
  by @andiwand, ✅ reviewed by @asalzburger, updated on 2024-09-30

- ▶ ⑂ `🚧 WIP` **ci: Download dependencies as tarball** (#3520)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-09-30

- ▶ ⑂ `🚧 WIP` `Stale` **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ✅ comment by @paulgessinger, updated on 2024-09-28

- ▶ ⑂ `🚧 WIP` `Stale` **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ✅ comment by @asalzburger, updated on 2024-09-28

- ▶ ⑂ `🚧 WIP` **fix: TrackSelector remove broken m_noEtaCuts** (#3640)
  by @timadye, ✅ comment by @timadye, updated on 2024-09-24

acts-project/acts: Open PRs VI

- ▶ ⑂ 🚧 WIP **refactor!: Clean track EDM projector** (#3605)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-24

- ▶ ⑂ 🚧 WIP **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, review requested, updated on 2024-09-24

- ▶ ⑂ 🚧 WIP Stale **feat: Add statistics to propagation** (#3450)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2024-09-21

- ▶ ⑂ 🚧 WIP Stale **draft: Gauss vertex seeding with time** (#3491)
  by @CENcll, ✅ comment by @andiwand, updated on 2024-09-21

- ▶ ⑂ 🚧 WIP **refactor: use structured bindings** (#3632)
  by @AJPfleger, ❌ changes requested by @stephenswat, updated on 2024-09-20

- ▶ ⑂ 🚧 WIP **refactor: reduce complexity of highly nested blocks** (#3633)
  by @AJPfleger, ✅ comment by @andiwand, updated on 2024-09-20

- ▶ ⑂ 🚧 WIP Stale **chore: Bump minimum boost version to 1.78.0** (#3517)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-09-19

acts-project/acts: Open PRs VII

- 🚧 WIP **refactor(material)!: update slabs from 'float' to 'double'** (#3609)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-09-12

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

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

- 🚧 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

acts-project/acts: Open PRs VIII

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

- 🚧 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

acts-project/acts: New stale Issues / PRs since 2024-09-24 I

- ▶ 🚧 **WIP** `Stale` **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-09-28

- ▶ ⊙ `Stale` **Error while building Geant4 plugin** (#3557)
  by @nibir98, updated on 2024-09-29

- ▶ ⊙ `Stale` **Cleanup: BinningValue, AxisBounds + detray/Integration** (#3549)
  by @asalzburger, updated on 2024-09-25

- ▶ 🚧 **WIP** `Stale` **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ⚠️ **no reviewer**, updated on 2024-09-28

- ▶ ⊙ `Stale` **'TrackStateType' is easy to get wrong** (#3439)
  by @andiwand, updated on 2024-09-26

- ▶ ⊙ `Stale` **Multiple context references are in flight for track fitters and finder** (#3383)
  by @andiwand, updated on 2024-09-27

- ▶ ⊙ `Stale` **bug: navigation suggests 'pathCorrection=inf' on cylinderSurface** (#3267)
  by @AJPfleger, updated on 2024-09-27

- ▶ ⊙ `Stale` **TrackAtVertex trackWeight is not being written in IVF** (#2149)
  by @andiwand, updated on 2024-09-27

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

- ▶ ⊙ `Stale` **Error while building Geant4 plugin** (#3557)
  by @nibir98, updated on 2024-09-29

- ▶ ⅄ `WIP` `Stale` **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ⚠ **no reviewer**, updated on 2024-09-28

- ▶ ⅄ `WIP` `Stale` **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-09-28

- ▶ ⊙ `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

- ▶ ⊙ `Stale` **Cleanup: BinningValue, AxisBounds + detray/Integration** (#3549)
  by @asalzburger, updated on 2024-09-25

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

- ▶ ⑂ `Stale` **ci: Reenable some ExaTrkX tests** (#3395)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-09-21

- ▶ ⑂ `🚧 WIP` `Stale` **feat: Add statistics to propagation** (#3450)
  by @andiwand, ⚠ **no reviewer**, updated on 2024-09-21

- ▶ ⑂ `🚧 WIP` `Stale` **draft: Gauss vertex seeding with time** (#3491)
  by @CENcll, ⚠ **no reviewer**, updated on 2024-09-21

- ▶ ⊙ `Stale` **Proposal: surface and portal navigation (including target surfaces) for Gen3** (#3526)
  by @asalzburger, updated on 2024-09-21

- ▶ ⊙ `Stale` **'common' CMake preset requires ccache** (#3537)
  by @stephenswat, updated on 2024-09-21

- ▶ ⑂ `Stale` **fix: Require TBB to be found by cmake** (#3507)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-09-21

- ▶ ⑂ `🚧 WIP` `Stale` **chore: Bump minimum boost version to 1.78.0** (#3517)
  by @paulgessinger, ⚠ **no reviewer**, updated on 2024-09-19

- ▶ 🔀 Stale **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters** (#3268)
  by @Matthewharri, ⚠ **no reviewer**, updated on 2024-09-18

- ▶ ⊙ Stale **FPE: RootTrajectoryStatesWriter** (#2348)
  by @paulgessinger, updated on 2024-09-15

- ▶ 🔀 🚧 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

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

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

▶ ⑂ `🚧 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

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

- ▶ ⬭ `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

- ▶ ⬭ `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

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

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- ▶ ⊙ 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

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

- ▶ ⊙ Stale **Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON** (#1818)
  by @DraTeots, 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

- ▶ ⊙ 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

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- ▶ ⊙ `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

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- ▶ ⊙ `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

- ▶ ⊙ `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

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- ▶ ⊙ 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

- ▶ ⊙ 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

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- ▶ ⊙ 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

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

- ▶ ⊙ Stale **Track finding rework** (#2320)
  by @paulgessinger, updated on 2023-11-11

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- ▶ ⊙ 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

- ▶ ⊙ 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

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- ▶ ⊙ 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

- ▶ ⊙ 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

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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 **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

- ▶ ⊙ 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

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- ▶ ⊙ 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

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