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October 8, 2024















acts-project/acts: PRs merged between 2024-10-01 and 2024-10-08 |

- ▶  **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
- ▶  **refactor: Enhance 'RootTrackParameterWriter' with residuals and pulls (#3666)**
by @andiwand,  reviewed by @AJPfleger, merged on 2024-10-01
- ▶  **feat(geo): TrackingVolume gets portal storage (#3673)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-10-01

















acts-project/acts: PRs merged between 2024-10-01 and 2024-10-08 II













- ▶  **refactor: Removed maxHits condition from ScoreBasedAmbiguitySolver (#3676)**
by @Ragansu,  reviewed by @Corentin-Allaire, merged on 2024-10-01
- ▶  **ci: GitLab '-j6' (#3677)**
by @paulgessinger,  reviewed by @AJPflegler, merged on 2024-10-01
- ▶  **chore: update license header (#3623)**
by @AJPflegler,  reviewed by @andiwand, merged on 2024-10-01
- ▶  **fix(gx2f): new error 'UsedUnreachableMeasurements' (#3653)**
by @AJPflegler,  reviewed by @andiwand, merged on 2024-10-02
- ▶  **feat(geo): TrackingVolume gets surface storage (#3675)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-10-02
- ▶  **fix: Fix Warning messages (#3679)**
by @CarloVarni,  reviewed by @AJPflegler, merged on 2024-10-02
- ▶  **refactor: use 'std::ranges::find', 'find_if', 'find_if_not' (#3614)**
by @AJPflegler,  reviewed by @paulgessinger, merged on 2024-10-02
- ▶  **feat: Allow volume constrain for propagation (#3470)**
by @andiwand,  reviewed by @timadye, merged on 2024-10-02















acts-project/acts: PRs merged between 2024-10-01 and 2024-10-08 III















- ▶  **feat(geo): Extent designated initialization (#3680)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2024-10-03
- ▶  **refactor: Unify proxy iterator types (#3664)**
by @stephenswat,  reviewed by @paulgessinger, merged on 2024-10-03
- ▶  **feat!: (fix + chore) streamline nSegments usage (#3419)**
by @asalzburger,  reviewed by @paulgessinger, merged on 2024-10-03
- ▶  **refactor: use 'std::ranges::all_of', 'any_of', 'none_of' (#3593)**
by @AJPfleger,  reviewed by @stephenswat, merged on 2024-10-03
- ▶  **fix: Correct initial 'q/p' covariance term in 'TrackParamsEstimationAlgorithm' in Examples (#3665)**
by @andiwand,  reviewed by @asalzburger, merged on 2024-10-03
- ▶  **fix: Fit iterator traits for ContainerIndexIterator (#3689)**
by @CarloVarni,  reviewed by @stephenswat, merged on 2024-10-03
- ▶  **feat: Allow Style setting for IndexedSurfaceGrid in Svg (#3686)**
by @asalzburger,  reviewed by @niermann999, merged on 2024-10-04

acts-project/acts: PRs merged between 2024-10-01 and 2024-10-08 IV
















- ▶  **feat: Add test for space point edm (#3690)**
by @CarloVarni,  reviewed by @AJPfleger, merged on 2024-10-04
- ▶  **fix: BinUtility was auto-convertible from Transform3 (#3691)**
by @paulgessinger,  reviewed by @stephenswat, merged on 2024-10-04
- ▶  **refactor!: Do not use geometry extent during seeding (#3688)**
by @CarloVarni,  reviewed by @paulgessinger, merged on 2024-10-04
- ▶  **feat: Gen 3 portal shells (#3564)**
by @paulgessinger,  reviewed by @andiwand, merged on 2024-10-04
- ▶  **feat!: Add a radius bin to the grid (#3662)**
by @CarloVarni,  reviewed by @paulgessinger, merged on 2024-10-04
- ▶  **feat: Add support for Timed Clusterization (#3654)**
by @CarloVarni,  reviewed by @gagnonlg, merged on 2024-10-04
- ▶  **refactor(geo): Add portals + surfaces to closeGeometry and visitSurfaces (#3678)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2024-10-04
- ▶  **refactor: use std::atan2 instead of atan2f (#3695)**
by @CarloVarni,  reviewed by @paulgessinger, merged on 2024-10-06

- ▶  **refactor: set convertMaterial as configurable (#3604)**
by @galocco,  reviewed by @asalzburger, merged on 2024-10-07
- ▶  **refactor(geo): Geometry visualization update (#3681)**
by @paulgessinger,  reviewed by @benjaminhuth, merged on 2024-10-07
- ▶  **refactor(geo): Teach ProtoLayer to respect local coordinate system (#3697)**
by @paulgessinger,  reviewed by @asalzburger, merged on 2024-10-07
- ▶  **build: Use correct GM variables in cmake config (#3699)**
by @paulgessinger,  reviewed by @CarloVarni, merged on 2024-10-08
- ▶  **feat: GeoModel changes for Gen1 ITk (#3685)**
by @benjaminhuth,  reviewed by @paulgessinger, merged on 2024-10-08
- ▶  **feat: add some SVG glue code to help displaying proto material (#3692)**
by @asalzburger,  reviewed by @niermann999, merged on 2024-10-08






















- ▶  **chore: remove some unnecessary includes (#3700)**
by @jmcarcell,  **no reviewer**, updated on 2024-10-08
- ▶  **fix: Copy whole trackstate did not copy calibrated (#3693)**
by @benjaminhuth,  changes requested by @paulgessinger, updated on 2024-10-08
- ▶  **refactor: Do not insert space points if not inside grid boundaries (#3698)**
by @CarloVarni, review requested, updated on 2024-10-08
- ▶  **feat(util): Add builder class for "chain" delegates (#3696)**
by @paulgessinger, review requested, updated on 2024-10-07
- ▶  **fix!: Use 'ActsScalar' in binning tools (#3482)**
by @stephenswat,  comment by @stephenswat, updated on 2024-10-04
- ▶  **feat: Conversion and chain code in tracc (#3656)**
by @stephenswat,  comment by @asalzburger, updated on 2024-09-30
- ▶  **refactor: Move MLAmbiguitySolver to Core (#3272)**
by @Corentin-Allaire,  comment by @Corentin-Allaire, updated on 2024-09-27
- ▶  **feat: tracc plugin refactor, tracc chain reconstruction only, and fixes (#3505)**
by @fredevb,  **no reviewer**, updated on 2024-09-26

- ▶  **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
- ▶  **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
- ▶  **Stale feat: allow bare Surface pointers to be written to JSON (#3493)**
by @asalzburger,  comment by @paulgessinger, updated on 2024-09-07
- ▶  **Stale feat: tracc plugin (conversion) (#3281)**
by @fredevb,  comment by @paulgessinger, updated on 2024-08-31
























acts-project/acts: Open PRs III

- ▶  **Stale** **fix: detray plugin (cmake flags, CI, and compile errors) (#3363)**
by @fredevb,  comment by @EleniXoch, updated on 2024-08-31
- ▶  **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 requested, updated on 2024-08-21
- ▶  **Stale** **feat: tracc 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** **perf: 'std::sqrt' over 'std::hypot' in Core (#3694)**
by @andiwand,  reviewed by @AJPfleger, updated on 2024-10-08
- ▶   **WIP** **ci: Download dependencies as tarball (#3520)**
by @paulgessinger,  **no reviewer**, updated on 2024-10-07





















acts-project/acts: Open PRs IV

- ▶   **Stale refactor!: Decouple navigation and stepping (#3449)**
by @andiwand,  **no reviewer**, updated on 2024-10-06
- ▶   **refactor!: Clean track EDM projector (#3605)**
by @andiwand,  **no reviewer**, updated on 2024-10-04
- ▶   **feat: Add 'estimateTrackParamCovariance' to Core (#3683)**
by @andiwand,  comment by @paulgessinger, updated on 2024-10-04
- ▶   **Stale feat: detray plugin surface grids (#3429)**
by @EleniXoch,  comment by @EleniXoch, updated on 2024-10-04
- ▶   **Stale feat: GeoModel plugin changes for ITk building. (#3519)**
by @benjaminhuth,  comment by @paulgessinger, updated on 2024-10-03
- ▶   **fix: Guarantee angle periodicity after KF filtering and smoothing (#3684)**
by @andiwand,  comment by @AJPfleger, updated on 2024-10-03
- ▶   **refactor: use structured bindings (#3632)**
by @AJPfleger,  comment by @paulgessinger, updated on 2024-10-03



















acts-project/acts: Open PRs ▼










- ▶   **feat: Allow reflection of track parameters (#3682)**
by @andiwand,  **no reviewer**, updated on 2024-10-02
- ▶   **refactor: modernise map utils (#3615)**
by @AJPfleger,  comment by @AJPfleger, updated on 2024-10-02
- ▶   **refactor(material)!: update slabs from 'float' to 'ActsScalar' (#3609)**
by @AJPfleger,  **no reviewer**, updated on 2024-10-02
- ▶   **chore: Bump minimum boost version to 1.78.0 (#3517)**
by @paulgessinger,  **no reviewer**, updated on 2024-10-02
- ▶    **feat: Adding efficiency vs production radius to output root files (#3539)**
by @AichaMattouhi,  comment by @paulgessinger, updated on 2024-09-28
- ▶    **refactor: Detector Element refactoring proposal (#3574)**
by @benjaminhuth,  comment by @asalzburger, updated on 2024-09-28
- ▶   **fix: TrackSelector remove broken m_noEtaCuts (#3640)**
by @timadye,  comment by @timadye, updated on 2024-09-24

acts-project/acts: Open PRs VI


















- ▶   **refactor: Bump min json ver, make json keys static (#2968)**
by @paulgessinger, review requested, updated on 2024-09-24
- ▶   **feat: Add statistics to propagation (#3450)**
by @andiwand,  comment by @paulgessinger, updated on 2024-09-21
- ▶   **draft: Gauss vertex seeding with time (#3491)**
by @CENcll,  comment by @andiwand, updated on 2024-09-21
- ▶   **refactor: reduce complexity of highly nested blocks (#3633)**
by @AJPflegler,  comment by @andiwand, updated on 2024-09-20
- ▶   **refactor: Rework detector handling in Examples (#3498)**
by @andiwand,  **no reviewer**, updated on 2024-09-07
- ▶   **feat: Added possibility to keep intermediate particles from PythiaGenerator**
WIP (#3414)
by @pbutti,  **no reviewer**, updated on 2024-08-22
- ▶   **refactor: Rework physics performance monitoring for Examples (#3359)**
by @andiwand,  **no reviewer**, updated on 2024-08-17

acts-project/acts: Open PRs VII













- ▶   **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 tracc chains (host and cuda) (#3403)**
by @fredevb,  **no reviewer**, updated on 2024-08-16
- ▶   **WIP** Stale **feat: tracc 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 **feat: GeoModel plugin changes for ITk building.** (#3519)
by @benjaminhuth,  **no reviewer**, updated on 2024-10-03
- ▶   **WIP** Stale **refactor!: Decouple navigation and stepping** (#3449)
by @andiwand,  **no reviewer**, updated on 2024-10-06
- ▶   **WIP** Stale **feat: detract plugin surface grids** (#3429)
by @EleniXoch,  **no reviewer**, updated on 2024-10-04













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

- ▶   **WIP** Stale refactor!: Decouple navigation and stepping (#3449)
by @andiwand,  **no reviewer**, updated on 2024-10-06
- ▶   **WIP** Stale feat: detray plugin surface grids (#3429)
by @EleniXoch,  **no reviewer**, updated on 2024-10-04
- ▶   **WIP** Stale feat: GeoModel plugin changes for ITk building. (#3519)
by @benjaminhuth,  **no reviewer**, updated on 2024-10-03
- ▶   **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
- ▶  Stale Multiple context references are in flight for track fitters and finder (#3383)
by @andiwand, updated on 2024-09-27


















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

- ▶  Stale **'TrackStateType' is easy to get wrong** (#3439)
by @andiwand, updated on 2024-09-26
- ▶  Stale **Cleanup: BinningValue, AxisBounds + detray/Integration** (#3549)
by @asalzbunger, updated on 2024-09-25
- ▶  Stale **ci: Reenable some ExaTrkX tests** (#3395)
by @benjaminhuth,  **no reviewer**, updated on 2024-09-21
- ▶   Stale **feat: Add statistics to propagation** (#3450)
by @andiwand,  **no reviewer**, updated on 2024-09-21
- ▶   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 @asalzbunger, updated on 2024-09-21
- ▶  Stale **'common' CMake preset requires ccache** (#3537)
by @stephenswat, updated on 2024-09-21

















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

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









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

- ▶  **Stale** feat: **tracc 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
- ▶  **Stale** feat: **Introduce the usage of the geomodel converters for the Muon System** (#3348)
by @dimitra97,  **no reviewer**, updated on 2024-08-23
- ▶   **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
- ▶   **Stale** refactor: **Rework physics performance monitoring for Examples** (#3359)
by @andiwand,  **no reviewer**, updated on 2024-08-17
- ▶   **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 V

- ▶   **WIP** Stale **build: physmon for tracc chains (host and cuda) (#3403)**
by @fredevb,  **no reviewer**, updated on 2024-08-16
- ▶   **WIP** Stale **feat: tracc cuda example (#3372)**
by @fredevb,  **no reviewer**, updated on 2024-08-16
- ▶  Stale **feat: tracc 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
- ▶  Stale **Project build flags are difficult to control (2024.05.29.) (#3231)**
by @krasznaa, updated on 2024-07-04












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

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









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

- ▶  **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
- ▶  **Stale** **Bug: Fatras sets step size to 0 (#2543)**
by @andiwand, updated on 2024-06-25









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








- ▶  **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
- ▶   **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








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

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

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

- ▶  **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
- ▶  **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

- ▶  **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-Heitler 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 lxpplus** (#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: Unpredictable 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

- ▶  **Stale Bug: issue on first build after DD4hep update on system with globally 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