


















Pull request and issue summary for acts-project/acts

March 14, 2023















acts-project/acts: PRs merged between 2023-03-07 and 2023-03-14 |

- ▶  **refactor: Remove missed components as early as possible & more** (PR#1921)
by @benjaminhuth, no assignee, merged on 2023-03-07
- ▶  **refactor: Remove unused attribute and method from InternalSpacePoint** (PR#1924)
by @CarloVarni, no assignee, merged on 2023-03-07
- ▶  **fix: Let 'addSeeding' logger respect log level** (PR#1925)
by @benjaminhuth, assigned to @andiwand, merged on 2023-03-08
- ▶  **ci: Change particles in GSF script to electrons and enable interactions** (PR#1916)
by @benjaminhuth, assigned to @andiwand, merged on 2023-03-08
- ▶  **feat: Seeding constness improvements** (PR#1923)
by @CarloVarni, no assignee, merged on 2023-03-09
- ▶  **refactor!: seeding always sorts SPs** (PR#1910)
by @LuisFelipeCoelho, no assignee, merged on 2023-03-09
- ▶  **fix: Wrong times in timing.tsv** (PR#1935)
by @benjaminhuth, assigned to @paulgessinger, merged on 2023-03-10
- ▶  **refactor: Change Variables Name in order not to start with _** (PR#1936)
by @CarloVarni, no assignee, merged on 2023-03-10



















acts-project/acts: PRs merged between 2023-03-07 and 2023-03-14 II

- ▶  **chore: odd full chain - only root output by default** (PR#1937)
by @andiwand, no assignee, merged on 2023-03-10
- ▶  **refactor: Examples sequence elements gain Read/WriteDataHandles** (PR#1908)
by @paulgessinger, no assignee, merged on 2023-03-10
- ▶  **refactor!: MTJ get/set SourceLink by value** (PR#1909)
by @paulgessinger, no assignee, merged on 2023-03-10
- ▶  **refactor!: Rewrite Binned SP Group** (PR#1919)
by @CarloVarni, no assignee, merged on 2023-03-12
- ▶  **fix: Don't let the GSF remove all weights** (PR#1933)
by @benjaminhuth, no assignee, merged on 2023-03-13
- ▶  **fix: Compute complete covariance for max weight reduction** (PR#1927)
by @benjaminhuth, no assignee, merged on 2023-03-13
- ▶  **refactor: Improve logging in the Examples Detectors** (PR#1911)
by @paulgessinger, no assignee, merged on 2023-03-13
- ▶  **feat: Iterate only on what we need while looking for compatible bottoms and tops** (PR#1926)
by @CarloVarni, no assignee, merged on 2023-03-14
- ▶  **refactor: navigator interface** (PR#1931)
by @andiwand, no assignee, merged on 2023-03-14






















acts-project/acts: Open PRs |

- ▶  **fix: Sequencer use-after-move in sequencer data flow check** (PR#1941)
by @paulgessinger,  **no assignee**, updated on 2023-03-14
- ▶  **fix: Alignment Contextual example binary smearing options** (PR#1944)
by @paulgessinger,  **no assignee**, updated on 2023-03-14
- ▶  **refactor: Switch all of the Examples to read/write handles** (PR#1939)
by @paulgessinger,  **no assignee**, updated on 2023-03-14
- ▶  **feat: experimental navigator for experimental geometry** (PR#1932)
by @andiwand,  **no assignee**, updated on 2023-03-13
- ▶  **feat: Move sort of vector outside of transformCoordinates** (PR#1922)
by @CarloVarni,  **no assignee**, updated on 2023-03-12
- ▶  **feat: Example of integrating HoughTransform example algorithm with python** (PR#1795)
by @tboldagh,  **no assignee**, updated on 2023-03-10
- ▶  **refactor: Change transformCoordinates to avoid recalculation of variables in Seedfinder** (PR#1831)
by @LuisFelipeCoelho,  **no assignee**, updated on 2023-03-10
















acts-project/acts: Open PRs II

- ▶  **perf: Tile 8x8 covariance matrix multiplication** (PR#1181)
by @stephenswat,  **no assignee**, updated on 2023-02-15
- ▶  **fix: Energy loss function** (PR#1323)
by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-21
- ▶   **refactor: avoid unnecessary calculations in triplet compatibility** (PR#1929)
by @LuisFelipeCoelho,  **no assignee**, updated on 2023-03-14
- ▶   **feat: Refitting algorithm** (PR#1940)
by @benjaminhuth,  **no assignee**, updated on 2023-03-14
- ▶   **refactor: Change the derivative matrix when rotation angles are small enough** (PR#1943)
by @jiaojunkun22,  **no assignee**, updated on 2023-03-14
- ▶   **ci: Athena build** (PR#1942)
by @paulgessinger,  **no assignee**, updated on 2023-03-14
- ▶   **refactor: optimize examples ambiguity resolution** (PR#1938)
by @andiwand,  **no assignee**, updated on 2023-03-13














acts-project/acts: Open PRs III

- ▶   **WIP** feat: **minimum number of compatible top SPs to trigger filterSeeds_2SpFixed** (PR#1930)
by @LuisFelipeCoelho,  **no assignee**, updated on 2023-03-13
- ▶   **WIP** feat: **GSF add final multi-component state to track container** (PR#1928)
by @benjaminhuth,  **no assignee**, updated on 2023-03-09
- ▶   **WIP** refactor: **Seeding does not use a grid of pointers** (PR#1820)
by @paulgessinger,  **no assignee**, updated on 2023-03-07
- ▶   **WIP** feat: **Space point implementation** (PR#1900)
by @CarloVarni,  **no assignee**, updated on 2023-03-01
- ▶   **WIP** refactor: **Exa.Trkx configurable stages** (PR#1898)
by @benjaminhuth,  **no assignee**, updated on 2023-02-27
- ▶   **WIP**  **Stale** docs: **adding Fatras description** (PR#1402)
by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- ▶   **WIP**  **Stale** docs: **first brush over the geometry pages** (PR#1395)
by @asalzburger, assigned to @asalzburger, updated on 2023-02-18













acts-project/acts: Open PRs IV

- ▶   **feat!: new cubic volume building (PR#1821)**
by @asalzbürger,  **no assignee**, updated on 2023-02-03
- ▶    **refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder! (PR#1394)**
by @robertlangenberg,  **no assignee**, updated on 2022-11-12
- ▶    **fix: B-field interpolation errors (PR#1467)**
by @timadye,  **no assignee**, updated on 2022-10-12
- ▶    **feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354)**
by @asalzbürger,  **no assignee**, updated on 2022-09-09














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

- ▶   WIP Stale **docs: adding Fatras description** (PR#1402)
by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- ▶   WIP Stale **docs: first brush over the geometry pages** (PR#1395)
by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- ▶  Stale **Make central minimum track momentum threshold** (Issue#1761)
by @paulgessinger,  **no assignee**, updated on 2023-01-21
- ▶  Stale **Drop 'boost progress' from examples where it is not used** (Issue#1736)
by @tboldagh,  **no assignee**, updated on 2023-01-16
- ▶  Stale **Remove 'volumeSignature' from geometry building** (Issue#1731)
by @paulgessinger,  **no assignee**, updated on 2023-01-16
- ▶  Stale **Optimal seeding parameters for a detector** (Issue#1699)
by @CouthuresJeremy,  **no assignee**, updated on 2023-01-05
- ▶  Stale **Particle smearing assertion with Geant4** (Issue#1603)
by @benjaminhuth, assigned to @benjaminhuth, updated on 2022-12-21














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













- ▶  **Stale** **Create volume restricted BFieldMap** (Issue#1659)
by @asalzburger,  **no assignee**, updated on 2022-12-21
- ▶  **Stale** **Documentation update: Core** (Issue#1418)
by @paulgessinger, assigned to @andiwand, updated on 2022-11-23
- ▶  **Stale** **Documentation update: Examples** (Issue#1420)
by @paulgessinger, assigned to @andiwand, updated on 2022-11-23
- ▶  **Stale** **Documentation update: How-to (core)** (Issue#1422)
by @paulgessinger,  **no assignee**, updated on 2022-11-23
- ▶  **Stale** **bug: interpolation out of bounds with ATLAS B-field map** (Issue#1484)
by @timadye,  **no assignee**, updated on 2022-11-12
- ▶   **WIP** **Stale** **refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder!** (PR#1394)
by @robertlangenberg,  **no assignee**, updated on 2022-11-12
- ▶  **Stale** **Documentation update: Plugins** (Issue#1421)
by @paulgessinger, assigned to @paulgessinger, updated on 2022-10-22

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












- ▶  **Stale** **Documentation update: FATRAS** (Issue#1419)
by @paulgessinger, assigned to @asalzburger, updated on 2022-10-22
- ▶  **Stale** **Vertexing produces vertex candidates that are unreasonable** (Issue#1361)
by @paulgessinger,  **no assignee**, updated on 2022-10-22
- ▶  **Stale** **Add Primary Vertex Label to tracks** (Issue#1544)
by @Lucas-Borgna,  **no assignee**, updated on 2022-10-22
- ▶  **Stale** **EDM Memory usage** (Issue#1516)
by @paulgessinger,  **no assignee**, updated on 2022-10-22
- ▶  **Stale** **Documentation update: Contribution guidelines** (Issue#1423)
by @paulgessinger, assigned to @paulgessinger, updated on 2022-10-19
- ▶   **WIP** **Stale** **fix: B-field interpolation errors** (PR#1467)
by @timadye,  **no assignee**, updated on 2022-10-12
- ▶  **Stale** **Monitor Floating Point Exceptions in CI** (Issue#1481)
by @paulgessinger,  **no assignee**, updated on 2022-10-01

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









- ▶  **Stale** **Optionally have the vertex finding recalculate perigee parameters relative to consistent reference** (Issue#1482)
by @paulgessinger,  **no assignee**, updated on 2022-10-01
- ▶  **Stale** **Full chain vertexing with AMVF** (Issue#1406)
by @paulgessinger,  **no assignee**, updated on 2022-10-01
- ▶  **Stale** **Documentation: hints for debugging** (Issue#1463)
by @timadye,  **no assignee**, updated on 2022-09-24
- ▶  **Stale** **Vertexing produces unexpectedly poor efficiency** (Issue#1362)
by @paulgessinger,  **no assignee**, updated on 2022-09-20
- ▶  **Stale** **Ambiguous perigees with low momentum** (Issue#1386)
by @andiwand,  **no assignee**, updated on 2022-09-20
- ▶  **Stale** **Vertexing produces propagation errors** (Issue#1345)
by @paulgessinger,  **no assignee**, updated on 2022-09-20
- ▶  **Stale** **add monitoring for vertexing in physmon** (Issue#1313)
by @andiwand, assigned to @paulgessinger, updated on 2022-09-20

- ▶  **Stale** **2D r-z Magnetic Field Map Improperly Read** (Issue#669)
by @osbornjd, assigned to @timadye, updated on 2022-09-20
- ▶  **Stale** **Fatras: Bethe-Heitler calculation wrong?** (Issue#1437)
by @asalzbunger,  **no assignee**, updated on 2022-09-20
- ▶   **WIP** **Stale** **feat: Adding unit tests for perigee propagation outside beam pipe** (PR#1354)
by @asalzbunger,  **no assignee**, updated on 2022-09-09
- ▶  **Stale** **Some writers performs their writes in the destructor** (Issue#881)
by @paulgessinger, assigned to @Corentin-Allaire, updated on 2022-08-11
- ▶  **Stale** **Vertexing issues observed in python vertexing example** (Issue#1091)
by @paulgessinger,  **no assignee**, updated on 2022-08-11
- ▶  **Stale** **Magnetic Field Storage** (Issue#1239)
by @osbornjd,  **no assignee**, updated on 2022-06-12
- ▶  **Stale** **Reproducibility test using hash checks for non-linear KF** (Issue#1246)
by @paulgessinger, assigned to @XiaocongAi, updated on 2022-06-12

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

- ▶  **Stale** **Cut tube segment dd4hep conversion tests** (Issue#1146)
by @rahmans1, assigned to @asalzburger, updated on 2022-05-25
- ▶  **Stale** **Bug: fatras different particle final states between python and executable** (Issue#1221)
by @CouthuresJeremy,  **no assignee**, updated on 2022-05-01
- ▶  **Stale** **ci: Coverage job is broken with gcovr >= 5.1** (Issue#1211)
by @paulgessinger, assigned to @paulgessinger, updated on 2022-04-29
- ▶  **Stale** **Bug: issue on first build after DD4hep update on system with globally installed acts**
(Issue#1139)
by @gagnonlg,  **no assignee**, updated on 2022-02-22
- ▶  **Stale** **Feat: Radial bounds in DD4hep plugin** (Issue#822)
by @whit2333,  **no assignee**, updated on 2022-02-19
- ▶  **Stale** **Add example (+test) for vertex fitting with constraints** (Issue#1100)
by @paulgessinger,  **no assignee**, updated on 2022-01-07
- ▶  **Stale** **Should seed finding tools have a higher-level interface?** (Issue#988)
by @stephenswat, assigned to @stephenswat, updated on 2021-11-25

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

- ▶  **Stale** **[bug] Off axis endcap with dd4hep plugin.** (Issue#942)
by @whit2333, assigned to @asalzburger, updated on 2021-11-25
- ▶  **Stale** **Improvement: Estimate track parameters from seed at perigee surface** (Issue#1036)
by @XiaocongAi,  **no assignee**, updated on 2021-11-10
- ▶  **Stale** **Polyhedron surfaces tests are disabled** (Issue#454)
by @msmk0, assigned to @asalzburger, updated on 2021-11-04
- ▶  **Stale** **Tracking for TPC/DC without surfaces** (Issue#165)
by @FabianKlimpel, assigned to @asalzburger, updated on 2021-11-04
- ▶  **Stale** **BoundingBox tests fail on double precision** (Issue#752)
by @paulgessinger, assigned to @paulgessinger, updated on 2021-11-04
- ▶  **Stale** **Debug Information in Acts Seeder** (Issue#944)
by @osbornjd, assigned to @robertlangenberg, updated on 2021-10-21
- ▶  **Stale** **fix: avoid double-static cast** (Issue#647)
by @asalzburger, assigned to @asalzburger, updated on 2021-10-21