Pull request and issue summary for acts-project/acts

March 7, 2023

acts-project/acts: PRs merged between 2023-02-28 and 2023-03-07 |

- \$\to\$ chore: new ACTSVG version for MS chambers (PR#1899) by @asalzburger, assigned to @noemina, merged on 2023-02-28
- \$\text{\phi}\$ perf: Use inline functions (PR#1884) by @CarloVarni, no assignee, merged on 2023-02-28
- ► % refactor: and fix truth seeding (PR#1897) by @andiwand, no assignee, merged on 2023-02-28
- ▶ **fix: remove deleted track selector params in python** (PR#1907) by @andiwand, no assignee, merged on 2023-03-01
- ▶ % refactor: correcting a typo on surfacetypes and add type binding for surfaces (PR#1903) by @dimitra97, no assignee, merged on 2023-03-01
- ▶ % refactor: make RNG independent of algorithm order (PR#1905) by @andiwand, no assignee, merged on 2023-03-02
- ▶ refactor: Reduce unconfigurable default loggers (PR#1912) by @paulgessinger, no assignee, merged on 2023-03-02

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- ► % refactor: Unify readers, writers and algorithms (PR#1901) by @paulgessinger, assigned to @benjaminhuth, merged on 2023-03-02
- ▶ ‰ feat: GSF backward-pass misses as outliers (PR#1904) by @benjaminhuth, no assignee, merged on 2023-03-03
- ▶ % feat: Machine learning based Ambiguity Solver (PR#1877) by @Corentin-Allaire, no assignee, merged on 2023-03-03
- ▶ \$\infty\$ feat: raise RuntimeError if invalid inputSpacePointsType in ITk configuration (PR#1902) by @LuisFelipeCoelho, no assignee, merged on 2023-03-05
- & docs: Machine Learning based Ambiguity Solver (PR#1917) by @Corentin-Allaire, no assignee, merged on 2023-03-06
- ▶ **fix:** Add default arguments to estimateTrackParamsfFromSeed (PR#1920) by @paulgessinger, no assignee, merged on 2023-03-06

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- ▶ % refactor: Remove missed components as early as possible & more (PR#1921) by @benjaminhuth, no assignee, merged on 2023-03-07
- ▶ **Free Free Proof** Prefactor: Remove unused attribute and method from InternalSpacePoint (PR#1924) by @CarloVarni, no assignee, merged on 2023-03-07

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- ▶ aci: Change particles in GSF script to electrons and enable interactions (PR#1916) by @benjaminhuth, no assignee, updated on 2023-03-07
- ▶ ↑ refactor: Examples sequence elements gain Read/WriteDataHandles (PR#1908) by @paulgessinger, ↑ no assignee, updated on 2023-03-07
- ▶ \$\tau\$ refactor!: MTJ get/set SourceLink by value (PR#1909) by @paulgessinger, no assignee, updated on 2023-03-07
- ▶ \$\tag{\text{\$\gamma}\$ feat: Seeding constness improvements (PR#1923)} by @CarloVarni, \text{\$\lambda\$ no assignee, updated on 2023-03-07}
- ▶ \$\frac{1}{2}\$ feat: Move sort of vector outside of transformCoordinates (PR#1922) by @CarloVarni, no assignee, updated on 2023-03-06
- ▶ \$\frac{1}{2}\$ feat: Example of integrating HoughTransform example algorithm with python (PR#1795) by @tboldagh, no assignee, updated on 2023-03-03
- ▶ \$\tau\$ refactor: Improve logging in the Examples Detectors (PR#1911) by @paulgessinger, no assignee, updated on 2023-03-02

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- ▶ ?↑ refactor: Change transformCoordinates to avoid recalculation of variables in Seedfinder (PR#1831)
 by @LuisFelipeCoelho, no assignee, updated on 2023-03-02
- ▶ perf: Tile 8×8 covariance matrix multiplication (PR#1181) by @stephenswat, no assignee, updated on 2023-02-15
- ▶ \$\hat{n}\$ fix: Energy loss function (PR#1323) by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-21
- by @paulgessinger, no assignee, updated on 2023-03-07
- by @CarloVarni, no assignee, updated on 2023-03-05
- by @CarloVarni, no assignee, updated on 2023-03-01

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- by @benjaminhuth, no assignee, updated on 2023-02-27
- by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- by @asalzburger, no assignee, updated on 2023-02-03
- 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
- by @timadye, no assignee, updated on 2022-10-12
- by @asalzburger, no assignee, updated on 2022-09-09

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- by @asalzburger, assigned to @asalzburger, updated on 2023-02-18
- Stale docs: first brush over the geometry pages (PR#1395) by @asalzburger, assigned to @asalzburger, updated on 2023-02-18

- 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

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- ▶ **O 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
- 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

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- ▶ **O 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
- by @timadye, no assignee, updated on 2022-10-12
- ► O Stale Monitor Floating Point Exceptions in CI (Issue#1481)
 by @paulgessinger,
 ↑ no assignee, updated on 2022-10-01

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- ► 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

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- Stale 2D r-z Magnetic Field Map Improperly Read (Issue#669) by @osbornjd, assigned to @timadye, updated on 2022-09-20
- ▶ \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, \$\hat{\chi}\$ 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

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- ▶ ⊙ Stale Cut tube segment dd4hep conversion tests (Issue#1146) by @rahmans1, assigned to @asalzburger, updated on 2022-05-25
- ▶ ⊙ 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 globaly 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

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- 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
- ▶ **O 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