Pull request and issue summary for acts-project/acts

February 28, 2023

acts-project/acts: PRs merged between 2023-02-21 and 2023-02-28 |

- Image: selection of the selection of
- feat: Add script for a parallel Geant4 simulation based on Python's 'multiprocessing' (PR#1879) by @benjaminhuth, no assignee, merged on 2023-02-22
- See refactor: update itk_seeding.py (PR#1865) by @LuisFelipeCoelho, no assignee, merged on 2023-02-22
- ▶ So chore: improve coloring for residuals and pulls script (PR#1889) by @andiwand, no assignee, merged on 2023-02-22
- Image: some doc and prints (PR#1886) by @andiwand, no assignee, merged on 2023-02-22
- ► fix: RootMeasurementWriter std vs var (PR#1890) by @andiwand, no assignee, merged on 2023-02-23
- Fix: G4 detector for Fatras sim (PR#1887) by @andiwand, no assignee, merged on 2023-02-23

acts-project/acts: PRs merged between 2023-02-21 and 2023-02-28 II

- So refactor: remove 'operator==' from digitization config objects (PR#1875) by @benjaminhuth, assigned to @asalzburger, merged on 2023-02-23
- ▶ So refactor: align Kalman fitter function with GSF fitter function (PR#1885) by @andiwand, no assignee, merged on 2023-02-23
- feat: enable geantino particle generation (PR#1888) by @andiwand, no assignee, merged on 2023-02-23
- ‰ fix: Really postselect particles in 'addGeant4' (PR#1883) by @benjaminhuth, no assignee, merged on 2023-02-23
- % feat: added python bindings for SurfaceTypes (PR#1893) by @dimitra97, no assignee, merged on 2023-02-24
- k- refactor: residuals and pulls analysis (PR#1892) by @andiwand, no assignee, merged on 2023-02-24
- So feat: deltaPhiMax variable from orthogonal seeding configurable with python (PR#1896) by @LuisFelipeCoelho, no assignee, merged on 2023-02-24
- ‰ ci: Add hashcheck for Exa.TrkX (PR#1894) by @benjaminhuth, no assignee, merged on 2023-02-27

acts-project/acts: PRs merged between 2023-02-21 and 2023-02-28 III

- chore: new ACTSVG version for MS chambers (PR#1899) by @asalzburger, assigned to @noemina, merged on 2023-02-28
- by perf: Use inline functions (PR#1884) by @CarloVarni, no assignee, merged on 2023-02-28
- Image: seeding by the seeding (PR#1897) by @andiwand, no assignee, merged on 2023-02-28

acts-project/acts: Open PRs I

- feat: Machine learning based Ambiguity Solver (PR#1877) by @Corentin-Allaire, no assignee, updated on 2023-02-28
- feat: raise RuntimeError if invalid inputSpacePointsType in ITk configuration (PR#1902) by @LuisFelipeCoelho, no assignee, updated on 2023-02-28
- refactor: Readers/Writers is Algoritms, too (PR#1901) by @paulgessinger, <u>no assignee</u>, updated on 2023-02-28
- fix: Pass By Reference function and Extend object to binned group (PR#1850) by @CarloVarni, <u>no assignee</u>, updated on 2023-02-28
- ▶ 1 feat: Example of integrating HoughTransform example algorithm with python (PR#1795) by @tboldagh, ↑ no assignee, updated on 2023-02-28
- Sperf: Tile 8×8 covariance matrix multiplication (PR#1181) by @stephenswat, A no assignee, updated on 2023-02-15
- fix: Energy loss function (PR#1323)
 by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-21

acts-project/acts: Open PRs II

- refactor: Change transformCoordinates to avoid recalculation of variables in Seedfinder (PR#1831) by @LuisFelipeCoelho, A no assignee, updated on 2023-02-28
- In WIP refactor: Exa.Trkx configurable stages (PR#1898) by @benjaminhuth, no assignee, updated on 2023-02-27
- Feat: Space point implementation (PR#1900) by @CarloVarni, no assignee, updated on 2023-02-27
- refactor: GSF counts backward-pass misses as outliers (PR#1880) by @benjaminhuth, <u>no assignee</u>, updated on 2023-02-22
- Stale docs: adding Fatras description (PR#1402) 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
- ► ↑ WIP refactor: Seeding does not use a grid of pointers (PR#1820) by @paulgessinger, ↑ no assignee, updated on 2023-02-08

acts-project/acts: Open PRs III

- ► ↑ WIP feat!: new cubic volume building (PR#1821) 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
- Stale fix: B-field interpolation errors (PR#1467)
 - by @timadye, 🚹 no assignee, updated on 2022-10-12
- Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, no assignee, updated on 2022-09-09

acts-project/acts: Issues opened since 2023-02-21 |

- Estimate Track Parameters from Seeds use only one surface. What about strips? (Issue#1895) by @CarloVarni, no assignee, updated on 2023-02-24
- Bug: last material interaction missing in validation output? (Issue#1882) by @noemina, A no assignee, updated on 2023-02-24

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- Stale docs: adding Fatras description (PR#1402) 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 Make central minimum track momentum threshold (Issue#1761) by @paulgessinger, A no assignee, updated on 2023-01-21
- Stale Drop 'boost progress' from examples where it is not used (Issue#1736) by @tboldagh, A no assignee, updated on 2023-01-16
- Stale Remove 'volumeSignature' from geometry building (Issue#1731) by @paulgessinger, A 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

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- 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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- 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, <u>no assignee</u>, 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 Cl (Issue#1481) by @paulgessinger, no assignee, updated on 2022-10-01

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- Stale Optionally have the vertex finding recalculate perigee parameters relative to consistent reference (Issue#1482)
 by @paulgessinger, A no assignee, updated on 2022-10-01
- Stale Full chain vertexing with AMVF (Issue#1406) by @paulgessinger, A no assignee, updated on 2022-10-01
- Stale Documentation: hints for debugging (Issue#1463) by @timadye, A 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, A no assignee, updated on 2022-09-20
- Stale Vertexing produces propagation errors (Issue#1345) by @paulgessinger, <u>no assignee</u>, 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
- Stale Fatras: Bethe-Heitler calculation wrong? (Issue#1437) by @asalzburger, no assignee, updated on 2022-09-20
- Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, A 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, <u>no assignee</u>, 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 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 globaly installed acts (Issue#1139) by @gagnonlg, A no assignee, updated on 2022-02-22
- Stale Feat: Radial bounds in DD4hep plugin (Issue#822) by @whit2333, A 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. (lssue#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