Pull request and issue summary for acts-project/acts

January 17, 2023

acts-project/acts: PRs merged between 2023-01-10 and 2023-01-17 |

- % refactor: python reconstruction trajectory writing (PR#1718) by @andiwand, assigned to @benjaminhuth, merged on 2023-01-10
- ▶ 1/2 feat: Make Clusterization.hpp aware of grid dimensionality (PR#1634) by @gagnonlg, no assignee, merged on 2023-01-10
- feat: Add BoundingBox to DetectorVolume (PR#1733) by @Matthewharri, no assignee, merged on 2023-01-10
- ‰ fix: Orthogonal seeding beamspot and function (PR#1775) by @CarloVarni, assigned to @noemina, merged on 2023-01-10
- Image: Section of the section of
- ► fix: maybe-uninitialized warning in DetectorVolume.cpp (PR#1780) by @benjaminhuth, no assignee, merged on 2023-01-11
- Fix: Make 'Range1D' a proper half-open interval (PR#1715) by @stephenswat, no assignee, merged on 2023-01-11
- Feat: Geat4 detector plugin, part 3 (final) (PR#1760) by @asalzburger, no assignee, merged on 2023-01-11

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- \$\overline\$ fix: remove double to bool conversion in vertexing (PR#1673) by @andiwand, no assignee, merged on 2023-01-11
- ‰ docs: Add new CERN students to 'CITATION.cff' (PR#1781) by @stephenswat, no assignee, merged on 2023-01-12
- ▶ 등 refactor!: Separate Config and Options for SpacePointGrid (PR#1774) by @CarloVarni, assigned to @noemina, merged on 2023-01-13
- k- refactor: make addSeeding python function smaller (PR#1768) by @tboldagh, assigned to @timadye, merged on 2023-01-13
- Image: by locs: update AUTHORS file (PR#1783) by @benjaminhuth, no assignee, merged on 2023-01-13
- ▶ 등 feat: throw runtime_error in seed finder if deltaR values were not initialised (PR#1782) by @LuisFelipeCoelho, no assignee, merged on 2023-01-16
- ▶ by perf: Improve performance of k-d tree (PR#1714) by @stephenswat, no assignee, merged on 2023-01-16
- feat: More robust navigation with bent tracks (PR#1769) by @benjaminhuth, no assignee, merged on 2023-01-16

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- build: Add -Wfloat-conversion to clang warnings (PR#1676) by @benjaminhuth, no assignee, merged on 2023-01-17
- So fix: fix enum to test presence of inner tube cover surface. (PR#1771) by @goetzgaycken, no assignee, merged on 2023-01-17
- fix: Missing Include in CuboidVolumeBuilder (PR#1786) by @CarloVarni, no assignee, merged on 2023-01-17
- So ci: Fix plot ranges in physmon vertexing plots (PR#1787) by @paulgessinger, no assignee, merged on 2023-01-17
- See refactor: Managing Seed Candidates with ad-hoc container (PR#1764) by @CarloVarni, assigned to @noemina, merged on 2023-01-17

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- fix: If ITk module splitting is enabled also split back side modules. (PR#1716) by @goetzgaycken, assigned to @niermann999, updated on 2023-01-17
- feat: Optionally decorate geometry dumps to json. (PR#1732) by @goetzgaycken, no assignee, updated on 2023-01-17
- fix: Energy loss function (PR#1323) by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-17
- build: Install Examples headers (PR#1752) by @osbornjd, no assignee, updated on 2023-01-17
- Sperf: Tile 8×8 covariance matrix multiplication (PR#1181) by @stephenswat, A no assignee, updated on 2023-01-17
- ▶ 1 feat: GeoID hook from python & ODD hook (PR#1779) by @benjaminhuth, ↑ no assignee, updated on 2023-01-17
- In docs: Adding script and documentation for geometry and material handling (PR#1784) by @noemina, assigned to @noemina, updated on 2023-01-17

acts-project/acts: Open PRs II

- feat: Visualization for DetectorVolume and Portal (PR#1762) by @Matthewharri, <u>no assignee</u>, updated on 2023-01-17
- refactor!: Changes to SeedFinderOrthogonal to allow reuse of the object (PR#1757) by @tboldagh, no assignee, updated on 2023-01-17
- refactor: physmon vertexing (PR#1688)
 by @andiwand, <u>no assignee</u>, updated on 2023-01-17
- feat: geometry id delegate (PR#1684) by @asalzburger, no assignee, updated on 2023-01-17
- Signature for the second se
- In WIP feat: new Acts::Detector building from ProtoDetector description (cylindrical) (PR#1767)
 by @asalzburger, A no assignee, updated on 2023-01-09
- ► The WIP Stale feat: port RootNTupleReader (PR#1620) by @andiwand, ∧ no assignee, updated on 2022-12-21

acts-project/acts: Open PRs III

- MIP Stale feat: Python documentation (PR#1633)
 - by @benjaminhuth, 🔥 no assignee, updated on 2022-12-21
- Stale refactor: modernize & add checks to 'Acts::TrackingGeometryBuilder' (PR#1656)
 by @benjaminhuth, <u>no assignee</u>, updated on 2022-12-21
- Stale docs: adding Fatras description (PR#1402) by @asalzburger, assigned to @asalzburger, 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 docs: first brush over the geometry pages (PR#1395) by @asalzburger, assigned to @asalzburger, updated on 2022-10-16
- Stale docs: polish tgeo plugin doc (PR#1397) by @niermann999, assigned to @niermann999, updated on 2022-10-16
- Stale fix: B-field interpolation errors (PR#1467) by @timadye, <u>no assignee</u>, updated on 2022-10-12

acts-project/acts: Open PRs IV

- Stale feat: Enable more fine-grained digitization configuration (PR#1272) by @benjaminhuth, A no assignee, updated on 2022-10-03
- Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, no assignee, updated on 2022-09-09
- Stale feat!: Allow regional seeding configuration (PR#1187) by @Corentin-Allaire, <u>no assignee</u>, updated on 2022-07-30

acts-project/acts: New stale Issues / PRs since 2023-01-10 |

- 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, A no assignee, updated on 2023-01-16

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- 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, A no assignee, updated on 2023-01-16
- Stale Detailed timing per event (Issue#1700)
 by @CouthuresJeremy, A no assignee, updated on 2023-01-05
- Stale Optimal seeding parameters for a detector (Issue#1699)
 by @CouthuresJeremy, A no assignee, updated on 2023-01-05
- Stale Refactor Seeding to avoid repeated Finders instantiations (Issue#1690) by @tboldagh, A no assignee, updated on 2022-12-24
- Stale Segfault for ODD+Pythia8+Geant4 (Issue#1578) by @andiwand, <u>no assignee</u>, updated on 2022-12-24
- 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 feat: port RootNTupleReader (PR#1620) by @andiwand, no assignee, updated on 2022-12-21
- Stale feat: Python documentation (PR#1633) by @benjaminhuth, no assignee, updated on 2022-12-21
- Stale refactor: modernize & add checks to 'Acts::TrackingGeometryBuilder' (PR#1656) by @benjaminhuth, <u>no assignee</u>, 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

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- Stale docs: adding Fatras description (PR#1402) by @asalzburger, assigned to @asalzburger, updated on 2022-11-12
- 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
- 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, <u>no assignee</u>, updated on 2022-10-22

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- 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
- Stale docs: first brush over the geometry pages (PR#1395) by @asalzburger, assigned to @asalzburger, updated on 2022-10-16
- Stale docs: polish tgeo plugin doc (PR#1397) by @niermann999, assigned to @niermann999, updated on 2022-10-16
- Stale fix: B-field interpolation errors (PR#1467) by @timadye, <u>no assignee</u>, updated on 2022-10-12
- Stale feat: Enable more fine-grained digitization configuration (PR#1272) by @benjaminhuth, no assignee, updated on 2022-10-03
- Stale Monitor Floating Point Exceptions in CI (Issue#1481) by @paulgessinger, <u>no assignee</u>, 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, <u>no assignee</u>, 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 feat!: Allow regional seeding configuration (PR#1187) by @Corentin-Allaire, <u>no assignee</u>, updated on 2022-07-30
- Stale Magnetic Field Storage (Issue#1239)
 by @osbornjd, <u>no assignee</u>, updated on 2022-06-12

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- Stale Reproducibility test using hash checks for non-linear KF (Issue#1246) by @paulgessinger, assigned to @XiaocongAi, updated on 2022-06-12
- 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 (lssue#1221) by @CouthuresJeremy, A 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, 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, A no assignee, updated on 2022-01-07

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- Stale Should seed finding tools have a higher-level interface? (Issue#988) by @stephenswat, assigned to @stephenswat, updated on 2021-11-25
- 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