Pull request and issue summary for acts-project/acts

January 31, 2023

acts-project/acts: PRs merged between 2023-01-24 and 2023-01-31 I

- ▶ % refactor: physmon vertexing (PR#1688) by @andiwand, no assignee, merged on 2023-01-24
- ▶ **fix: sequencer timing output** (PR#1793) by @andiwand, no assignee, merged on 2023-01-24
- ▶ ‰ feat: Add option to use odd with G4 (PR#1794) by @Corentin-Allaire, no assignee, merged on 2023-01-24
- ▶ **ci:** Change how we run python based check jobs (PR#1799) by @paulgessinger, assigned to @andiwand, merged on 2023-01-25
- ▶ **feat: port RootNTupleReader** (PR#1620) by @andiwand, assigned to @benjaminhuth, merged on 2023-01-25
- ▶ fix: G4 material converter (PR#1803) by @andiwand, no assignee, merged on 2023-01-27
- ▶ % refactor: move material composition code to the left (PR#1804) by @andiwand, no assignee, merged on 2023-01-27
- ▶ **feat: Add INFO printouts about the layers & volumes** (PR#1773) by @tboldagh, assigned to @asalzburger, merged on 2023-01-30

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- ▶ ‰ ci: Fix IIvm installation for clang-tidy job (PR#1807) by @paulgessinger, assigned to @andiwand, merged on 2023-01-30
- ▶ lb docs: Remove eclipse link because it doesn't exist anymore (PR#1813) by @paulgessinger, no assignee, merged on 2023-01-30
- ▶ **build: Fix build with external nlohmann_json** (PR#1806) by @paulgessinger, assigned to @andiwand, merged on 2023-01-30

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- ▶ \$\frac{1}{2}\$ fix: Dangling pointer VolumeMaterialInteractionTests (PR#1808) by @paulgessinger, assigned to @andiwand, updated on 2023-01-31
- ▶ and feat: add detector builder infrastructure (PR#1814) by @asalzburger, no assignee, updated on 2023-01-31
- ▶ \$\tag{\tag{PR}\$ feat: KalmanFitter marks missed surfaces as outliers (PR#1809) by @paulgessinger, assigned to @andiwand, updated on 2023-01-31
- ▶ \$\frac{1}{10}\$ fix: bug in calculation of cut for seed finder orthogonal (PR#1815) by @LuisFelipeCoelho, no assignee, updated on 2023-01-31
- ▶ १७ refactor: Remove LoggerWrapper in favor of Logger refs (PR#1812) by @paulgessinger, assigned to @andiwand, updated on 2023-01-31
- ▶ \$\frac{1}{2}\$ feat: G4 plugin material mixing (PR#1805) by @andiwand, \(\hat{\Lambda} \) no assignee, updated on 2023-01-31
- ▶ \$\tau\$ refactor: Material mapping howto for python bindings (PR#1801) by @Corentin-Allaire, no assignee, updated on 2023-01-30

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- ▶ fix: TGeo estimation of annulus bounds. (PR#1796) by @goetzgaycken, no assignee, updated on 2023-01-27
- ▶ \$\tau\$ chore: bump actsvg to v0.4.28 (PR#1797) by @andiwand, \(\hat{\Lambda}\) no assignee, updated on 2023-01-24
- ▶ **?** refactor: Suppress large printout of Geant4 by default (PR#1791) by @benjaminhuth, no assignee, updated on 2023-01-23
- \$\text{nix: Energy loss function (PR#1323)}\$
 by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-21
- ▶ \$\frac{1}{2}\$ build: Install Examples headers (PR#1752) by @osbornjd, no assignee, updated on 2023-01-19
- ▶ \$\frac{1}{17}\$ fix: If ITk module splitting is enabled also split back side modules. (PR#1716) by @goetzgaycken, assigned to @niermann999, updated on 2023-01-18

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- ▶ \$\hat{n}\$ feat: geometry id delegate (PR#1684) by @asalzburger, no assignee, updated on 2023-01-17
- Fig. WIP feat: Example of integrating HoughTransform example algorithm with python (PR#1795) by @tboldagh, no assignee, updated on 2023-01-24
- by @asalzburger, assigned to @asalzburger, updated on 2023-01-18
- ▶ 1 WIP docs: first brush over the geometry pages (PR#1395) by @asalzburger, assigned to @asalzburger, updated on 2023-01-18
- ► \$\frac{\sqrt{WIP}}{\sqrt{WIP}}\$ feat: new Acts::Detector building from ProtoDetector description (cylindrical) (PR#1767)
 by @asalzburger, \text{\left} no assignee, updated on 2023-01-09}
- 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

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- by @timadye, no assignee, updated on 2022-10-12
- ▶ 11 WIP Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, ↑ no assignee, updated on 2022-09-09

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▶ **O** Improve error messages informativeness in python bindings (Issue#1802) by @tboldagh, no assignee, updated on 2023-01-26

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- ▶ **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 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
- Stale Documentation update: Core (Issue#1418) by @paulgessinger, assigned to @andiwand, updated on 2022-11-23

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- ▶ **O Stale Documentation update: Examples** (Issue#1420) by @paulgessinger, assigned to @andiwand, updated on 2022-11-23
- ▶ **O 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
- ► \$\frac{\sqrt{N}}{\sqrt{WIP}}\$ Stale refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder! (PR#1394) by @robertlangenberg, \(\cdot\) 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
- ▶ **O Stale Vertexing produces vertex candidates that are unreasonable** (Issue#1361) by @paulgessinger, no assignee, updated on 2022-10-22

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- ▶ **O 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
- ▶ \$\frac{\sqrt{10}}{\sqrt{10}}\$ WIP Stale fix: B-field interpolation errors (PR#1467) by @timadye, \(\bar{\Lambda}\) no assignee, updated on 2022-10-12
- ► 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

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- ▶ **Stale Documentation: hints for debugging** (Issue#1463) by @timadye, **no assignee**, updated on 2022-09-24
- ▶ **O Stale Vertexing produces unexpectedly poor efficiency** (Issue#1362) by @paulgessinger, **↑ 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 @asalzburger, no assignee, updated on 2022-09-20

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- by @asalzburger, 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 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

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- ▶ **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
- ▶ ⊙ 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

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- 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