Pull request and issue summary for acts-project/acts

October 29, 2024

acts-project/acts: PRs merged between 2024-10-22 and 2024-10-29 I

- ▶ ⎇ **ci: Download dependencies as tarball** (#3520)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2024-10-22

- ▶ ⎇ **ci: Reset 'ccache' caches** (#3771)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-22

- ▶ ⎇ **fix: Make 'DataHandle' type check more robust** (#3768)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-22

- ▶ ⎇ **test: Reduce logging amount in fitter unit tests** (#3772)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-10-22

- ▶ ⎇ **chore: Fix license header in pre commit hooks** (#3773)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-10-22

- ▶ ⎇ **feat: Add tracking efficiency vs z0** (#3764)
  by @ntadej, ✅ reviewed by @andiwand, merged on 2024-10-22

- ▶ ⎇ **feat: Add 'AngleHelpers.hpp' to help with eta/theta conversions** (#3767)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-22

- ▶ ⎇ **chore: update exclude list for unused files** (#3776)
  by @AJPfleger, ✅ reviewed by @dimitra97, merged on 2024-10-23

acts-project/acts: PRs merged between 2024-10-22 and 2024-10-29 II

- ▶ ⎇ **fix: Improve 'TrackParameterHelpers.hpp'** (#3766)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2024-10-24

- ▶ ⎇ **feat(nav): Gen3 Navigation policies and factory** (#3760)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2024-10-24

- ▶ ⎇ **chore: Tweak DD4hep log level** (#3778)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-24

- ▶ ⎇ **refactor: Rework random parameter and covariance generation** (#3777)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-24

- ▶ ⎇ **build: Unconditionally load Boost in CMake config** (#3779)
  by @stephenswat, ✅ reviewed by @paulgessinger, merged on 2024-10-24

- ▶ ⎇ **ci: Bump dependency tarball version to v5** (#3782)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2024-10-26

- ▶ ⎇ **ci: dependency URL not set correctly** (#3786)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-10-27

- ▶ ⎇ **chore(tests): brush over surface tests** (#3783)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-10-27

▶ **refactor: replace 'fabs(' and 'sqrtf(' with 'std::abs' and 'std::sqrt('** (#3787)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-10-27

▶ **fix: Make callable args universal references** (#3789)
  by @paulgessinger, ✅ reviewed by @benjaminhuth, merged on 2024-10-28

▶ **fix: Remove a number of Sonar issues** (#3780)
  by @paulgessinger, ✅ reviewed by @benjaminhuth, merged on 2024-10-28

▶ **feat: Validate track parameters** (#3756)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2024-10-29

acts-project/acts: Open PRs I

- ⑂ **feat: Log-uniform p/pt distributions for Examples** (#3790)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-10-29
- ⑂ **refactor: Allow track selection without reference surface** (#3791)
  by @benjaminhuth, ✅ comment by @benjaminhuth, updated on 2024-10-28
- ⑂ **refactor: FPE safe eta/theta conversion** (#3788)
  by @andiwand, review requestedreview requested, updated on 2024-10-28
- ⑂ **refactor: use mathematical constants from 'std::numbers'** (#3781)
  by @AJPfleger, review requested, updated on 2024-10-28
- ⑂ Stale **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ✅ comment by @Corentin-Allaire, updated on 2024-10-27
- ⑂ **feat: ProxyAccessor constructor can now be constexpr** (#3757)
  by @timadye, review requested, updated on 2024-10-27
- ⑂ Stale **feat: traccc plugin refactor, traccc chain reconstruction only, and fixes** (#3505)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-10-27
- ⑂ **fix: protect TrackSelector against eta=nan** (#3785)
  by @timadye, ⚠️ **no reviewer**, updated on 2024-10-26

acts-project/acts: Open PRs II

- ▶ 🔀 **feat: Add standalone digitization coordinates converter** (#3765)
  by @ntadej, ✅ comment by @paulgessinger, updated on 2024-10-24

- ▶ 🔀 **ci: Enable standard library assertions in debug builds** (#3759)
  by @benjaminhuth, ✅ comment by @benjaminhuth, updated on 2024-10-24

- ▶ 🔀 **chore: Update PR template, add cut-off marker** (#3741)
  by @paulgessinger, ✅ reviewed by @AJPfleger, updated on 2024-10-18

- ▶ 🔀 **feat: bump detray version, add material tracer** (#3755)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-10-17

- ▶ 🔀 **feat: Conversion and chain code in traccc** (#3656)
  by @stephenswat, ✅ comment by @asalzburger, updated on 2024-10-15

- ▶ 🔀 **ci: Reenable some ExaTrkX tests** (#3395)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-10-11

- ▶ 🔀 **feat: Add a fastjet plugin** (#3617)
  by @gagnonlg, ⚠️ **no reviewer**, updated on 2024-10-10

- ▶ 🔀 **fix!: Use 'ActsScalar' in binning tools** (#3482)
  by @stephenswat, ✅ comment by @stephenswat, updated on 2024-10-04

acts-project/acts: Open PRs III

- ⑃ `Stale` **fix: Require TBB to be found by cmake** (#3507)
  by @benjaminhuth, ✅ reviewed by @timadye, updated on 2024-09-21

- ⑃ `Stale` **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters** (#3268)
  by @Matthewharri, ✅ comment by @Matthewharri, updated on 2024-09-18

- ⑃ `Stale` **feat: allow bare Surface pointers to be written to JSON** (#3493)
  by @asalzburger, ✅ comment by @paulgessinger, updated on 2024-09-07

- ⑃ `Stale` **feat: traccc plugin (conversion)** (#3281)
  by @fredevb, ✅ comment by @paulgessinger, updated on 2024-08-31

- ⑃ `Stale` **fix: detray plugin (cmake flags, CI, and compile errors)** (#3363)
  by @fredevb, ✅ comment by @EleniXoch, updated on 2024-08-31

- ⑃ `Stale` **feat: Introduce the usage of the geomodel converters for the Muon System** (#3348)
  by @dimitra97, ✅ comment by @dimitra97, updated on 2024-08-23

- ⑃ `Stale` **refactor: Lift GenericDetector to a Plugin** (#3425)
  by @benjaminhuth,review requestedreview requested, updated on 2024-08-21

acts-project/acts: Open PRs IV

- ⑂ `Stale` **feat: traccc chain in examples (common chain logic and CPU chain)** (#3320)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-15

- ⑂ `Stale` **feat: introduction obj simhit writer** (#3180)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-06-15

- ⑂ `🚧 WIP` **fix: Do not use requires in class EDM definition** (#3731)
  by @CarloVarni, ⚠️ **no reviewer**, updated on 2024-10-29

- ⑂ `🚧 WIP` **refactor: Replace 'ParticleSmearing' with 'TrackParameterSmearing ' in Examples** (#3784)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-10-29

- ⑂ `🚧 WIP` **refactor: Rework detector handling in Examples** (#3498)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-10-25

- ⑂ `🚧 WIP` **feat: Adding G4Trap converter in Geant4Converters** (#3775)
  by @ldamenti, ✅ comment by @ldamenti, updated on 2024-10-25

- ⑂ `🚧 WIP` **ci: Add check for mathematical constants (no macros)** (#3774)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-10-24

acts-project/acts: Open PRs V

- ⑂ 🚧 WIP `Stale` **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, review requested, updated on 2024-10-24

- ⑂ 🚧 WIP **refactor(gx2f): make material work for |eta| > 2** (#3726)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-10-23

- ⑂ 🚧 WIP **refactor!: explicit constructors** (#3762)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-10-23

- ⑂ 🚧 WIP **fix: resurrect 'ActsScalar' with 'float'** (#3754)
  by @AJPfleger, ✅ comment by @AJPfleger, updated on 2024-10-21

- ⑂ 🚧 WIP `Stale` **refactor: reduce complexity of highly nested blocks** (#3633)
  by @AJPfleger, ✅ comment by @andiwand, updated on 2024-10-20

- ⑂ 🚧 WIP **refactor: modernise map utils** (#3615)
  by @AJPfleger, ✅ comment by @AJPfleger, updated on 2024-10-18

- ⑂ 🚧 WIP **refactor: Add helper for Transform inversion** (#3750)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-10-17

acts-project/acts: Open PRs VI

- ⑂ 🚧 WIP **feat: Add 'noexcept' specifier to 'Acts::Any'** (#3743)
  by @benjaminhuth, review requested, updated on 2024-10-16

- ⑂ 🚧 WIP **refactor!: Middle range strategy** (#3719)
  by @CarloVarni, ✅ comment by @paulgessinger, updated on 2024-10-14

- ⑂ 🚧 WIP **refactor!: Seed Finders create collection of 'Seed<external_spacepoint_t>' instead of 'Seed<Proxy<external_spacepoint_t>'** (#3729)
  by @CarloVarni, ⚠️ **no reviewer**, updated on 2024-10-13

- ⑂ 🚧 WIP **refactor: Some internal GSF refactorings** (#2697)
  by @benjaminhuth, ❌ changes requested by @andiwand, updated on 2024-10-10

- ⑂ 🚧 WIP **refactor(material)!: update slabs from 'float' to 'ActsScalar'** (#3609)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-10-08

- ⑂ 🚧 WIP Stale **refactor!: Decouple navigation and stepping** (#3449)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-10-06

- ⑂ 🚧 WIP **refactor!: Clean track EDM projector** (#3605)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-10-04

acts-project/acts: Open PRs VII

- ⎇ 🚧 WIP `Stale` **feat: detray plugin surface grids** (#3429)
  by @EleniXoch, ✅ comment by @EleniXoch, updated on 2024-10-04

- ⎇ 🚧 WIP **chore: Bump minimum boost version to 1.78.0** (#3517)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-10-02

- ⎇ 🚧 WIP `Stale` **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ✅ comment by @paulgessinger, updated on 2024-09-28

- ⎇ 🚧 WIP `Stale` **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ✅ comment by @asalzburger, updated on 2024-09-28

- ⎇ 🚧 WIP `Stale` **feat: Add statistics to propagation** (#3450)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2024-09-21

- ⎇ 🚧 WIP `Stale` **draft: Gauss vertex seeding with time** (#3491)
  by @CENcll, ✅ comment by @andiwand, updated on 2024-09-21

▶ 🔀 🚧 WIP | Stale | **feat: Added possibility to keep intermediate particles from PythiaGenerator WIP** (#3414)
by @pbutti, ⚠️ **no reviewer**, updated on 2024-08-22

▶ 🔀 🚧 WIP | Stale | **refactor: Rework physics performance monitoring for Examples** (#3359)
by @andiwand, ⚠️ **no reviewer**, updated on 2024-08-17

▶ 🔀 🚧 WIP | Stale | **refactor: Move config files from ODD to Acts to ensure compatibility** (#3407)
by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-08-17

▶ 🔀 🚧 WIP | Stale | **build: physmon for traccc chains (host and cuda)** (#3403)
by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-16

▶ 🔀 🚧 WIP | Stale | **feat: traccc cuda example** (#3372)
by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-16

▶ 🔀 🚧 WIP | Stale | **feat: Add per event timing** (#3124)
by @CouthuresJeremy, ✅ comment by @andiwand, updated on 2024-07-11

▶ 🔀 🚧 WIP | Stale | **feat: Add GSF component momentum cut to stabilize fit** (#2661)
by @benjaminhuth, ✅ comment by @benjaminhuth, updated on 2024-05-25

- ⊙ Stale **Common shared measurement computation?** (#3618)
  by @gagnonlg, updated on 2024-10-26

- ⤷ Stale **feat: traccc plugin refactor, traccc chain reconstruction only, and fixes** (#3505)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-10-27

- ⤷ Stale **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ⚠ **no reviewer**, updated on 2024-10-27

- ⤷ 🚧 WIP Stale **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, ⚠ **no reviewer**, updated on 2024-10-24

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

- ⑂ `Stale` **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ⚠ **no reviewer**, updated on 2024-10-27

- ⑂ `Stale` **feat: traccc plugin refactor, traccc chain reconstruction only, and fixes** (#3505)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-10-27

- ⊙ `Stale` **Common shared measurement computation?** (#3618)
  by @gagnonlg, updated on 2024-10-26

- ⑂ `🚧 WIP` `Stale` **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, ⚠ **no reviewer**, updated on 2024-10-24

- ⑂ `🚧 WIP` `Stale` **refactor: reduce complexity of highly nested blocks** (#3633)
  by @AJPfleger, ⚠ **no reviewer**, updated on 2024-10-20

- ⊙ `Stale` **Bug: Example Framework does not compile in an environment without TBB** (#3610)
  by @tomeichlersmith, updated on 2024-10-13

- ⑂ `🚧 WIP` `Stale` **refactor!: Decouple navigation and stepping** (#3449)
  by @andiwand, ⚠ **no reviewer**, updated on 2024-10-06

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

- ⤴ 🚧 WIP | Stale | **feat: detray plugin surface grids** (#3429)
  by @EleniXoch, ⚠ **no reviewer**, updated on 2024-10-04

- ⤴ 🚧 WIP | Stale | **feat: Adding efficiency vs production radius to output root files** (#3539)
  by @AichaMattouhi, ⚠ **no reviewer**, updated on 2024-09-28

- ⤴ 🚧 WIP | Stale | **refactor: Detector Element refactoring proposal** (#3574)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-09-28

- ⊙ Stale | **TrackAtVertex trackWeight is not being written in IVF** (#2149)
  by @andiwand, updated on 2024-09-27

- ⊙ Stale | **Multiple context references are in flight for track fitters and finder** (#3383)
  by @andiwand, updated on 2024-09-27

- ⊙ Stale | **'TrackStateType' is easy to get wrong** (#3439)
  by @andiwand, updated on 2024-09-26

- ⊙ Stale | **Cleanup: BinningValue, AxisBounds + detray/Integration** (#3549)
  by @asalzburger, updated on 2024-09-25

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

- ▶ ⦿ 🚧 WIP Stale **feat: Add statistics to propagation** (#3450)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-09-21

- ▶ ⦿ 🚧 WIP Stale **draft: Gauss vertex seeding with time** (#3491)
  by @CENcll, ⚠️ **no reviewer**, updated on 2024-09-21

- ▶ ⦿ Stale **Proposal: surface and portal navigation (including target surfaces) for Gen3** (#3526)
  by @asalzburger, updated on 2024-09-21

- ▶ ⦿ Stale **'common' CMake preset requires ccache** (#3537)
  by @stephenswat, updated on 2024-09-21

- ▶ ⦿ Stale **fix: Require TBB to be found by cmake** (#3507)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-09-21

- ▶ ⦿ Stale **feat: GeoShapes to DetectorVolumes and GeoMaterial Converters** (#3268)
  by @Matthewharri, ⚠️ **no reviewer**, updated on 2024-09-18

- ▶ ⦿ Stale **FPE: RootTrajectoryStatesWriter** (#2348)
  by @paulgessinger, updated on 2024-09-15

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

- ▶ 🔀 `Stale` **feat: allow bare Surface pointers to be written to JSON** (#3493)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-09-07

- ▶ ⊙ `Stale` **'GlobalChiSquareFitter' produces parameters in wrong volume** (#3444)
  by @andiwand, updated on 2024-09-05

- ▶ ⊙ `Stale` **Bug: _acts_dfelibs_version unset in CMakeLists.txt** (#3457)
  by @wdconinc, updated on 2024-09-05

- ▶ 🔀 `Stale` **feat: traccc plugin (conversion)** (#3281)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-31

- ▶ 🔀 `Stale` **fix: detray plugin (cmake flags, CI, and compile errors)** (#3363)
  by @fredevb, ⚠️ **no reviewer**, updated on 2024-08-31

- ▶ 🔀 `Stale` **feat: Introduce the usage of the geomodel converters for the Muon System** (#3348)
  by @dimitra97, ⚠️ **no reviewer**, updated on 2024-08-23

- ▶ 🔀 `WIP` `Stale` **feat: Added possibility to keep intermediate particles from PythiaGenerator WIP** (#3414)
  by @pbutti, ⚠️ **no reviewer**, updated on 2024-08-22

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

- ▶ 🔀 `Stale` **refactor: Lift GenericDetector to a Plugin** (#3425)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-08-21

- ▶ 🔀 `WIP` `Stale` **refactor: Rework physics performance monitoring for Examples** (#3359)
  by @andiwand, ⚠ **no reviewer**, updated on 2024-08-17

- ▶ 🔀 `WIP` `Stale` **refactor: Move config files from ODD to Acts to ensure compatibility** (#3407)
  by @benjaminhuth, ⚠ **no reviewer**, updated on 2024-08-17

- ▶ 🔀 `WIP` `Stale` **build: physmon for traccc chains (host and cuda)** (#3403)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-16

- ▶ 🔀 `WIP` `Stale` **feat: traccc cuda example** (#3372)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-16

- ▶ 🔀 `Stale` **feat: traccc chain in examples (common chain logic and CPU chain)** (#3320)
  by @fredevb, ⚠ **no reviewer**, updated on 2024-08-15

- ▶ ⊙ `Stale` **Provide tools & setup for tracking of Heavy Ion on ITk events in standalone ACTS environment** (#1778)
  by @tboldagh, updated on 2024-07-24

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

- ▶ ⟨⟩ 🚧 WIP Stale **feat: Add per event timing** (#3124)
  by @CouthuresJeremy, ⚠️ **no reviewer**, updated on 2024-07-11

- ▶ ⊙ Stale **Project build flags are difficult to control (2024.05.29.)** (#3231)
  by @krasznaa, updated on 2024-07-04

- ▶ ⊙ Stale **[bug] Off axis endcap with dd4hep plugin.** (#942)
  by @whit2333, updated on 2024-06-26

- ▶ ⊙ Stale **Debug Information in Acts Seeder** (#944)
  by @osbornjd, updated on 2024-06-26

- ▶ ⊙ Stale **Reproducibility test using hash checks for non-linear KF** (#1246)
  by @paulgessinger, updated on 2024-06-25

- ▶ ⊙ Stale **Documentation update: Core** (#1418)
  by @paulgessinger, updated on 2024-06-25

- ▶ ⊙ Stale **Documentation: hints for debugging** (#1463)
  by @timadye, updated on 2024-06-25

- ▶ ⊙ Stale **Add Primary Vertex Label to tracks** (#1544)
  by @Lucas-Borgna, updated on 2024-06-25

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

- ▶ ⊙ `Stale` **Create volume restricted BFieldMap** (#1659)
  by @asalzburger, updated on 2024-06-25

- ▶ ⊙ `Stale` **Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON** (#1818)
  by @DraTeots, updated on 2024-06-25

- ▶ ⊙ `Stale` **EstimateTrackParamsFromSeed does not use time of measurement** (#2136)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **Construct tracking geometry from python** (#2173)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in'** (#2216)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **Bug: not all tracks have fittedMomentum** (#2364)
  by @felix-russo, updated on 2024-06-25

- ▶ ⊙ `Stale` **Bug: AMVF 'deleteLastVertex' might be wrong** (#2380)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **[Bug] Fatras can't seem to handle energy loss for electrons on thin surfaces** (#2498)
  by @janheinri, updated on 2024-06-25

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- ▶ ⊙ `Stale` **[Feature Request] Padding utility for field map in case tracking volume is larger than a given field map** (#2523)
  by @janheinri, updated on 2024-06-25

- ▶ ⊙ `Stale` **Bug: Fatras sets step size to 0** (#2543)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **Ensure Fitters use all provided measurements** (#2737)
  by @andiwand, updated on 2024-06-25

- ▶ ⊙ `Stale` **bug: KF verbosity statement** (#3097)
  by @osbornjd, updated on 2024-06-20

- ▶ ⑄ `Stale` **feat: introduction obj simhit writer** (#3180)
  by @asalzburger, ⚠ **no reviewer**, updated on 2024-06-15

- ▶ ⊙ `Stale` **EDM Memory usage** (#1516)
  by @paulgessinger, updated on 2024-05-25

- ▶ ⊙ `Stale` **Detailed timing per event** (#1700)
  by @CouthuresJeremy, updated on 2024-05-25

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▶ ⏳ 🚧 WIP Stale **feat: Add GSF component momentum cut to stabilize fit** (#2661)
by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-05-25

▶ ⊙ Stale **Question: Set a different value of eta range using ODD** (#2776)
by @rubihason, updated on 2024-05-25

▶ ⊙ Stale **Write Fatras documentation** (#2796)
by @andiwand, updated on 2024-05-25

▶ ⊙ Stale **bug: documentation always builds in '<source>'** (#2798)
by @AJPfleger, updated on 2024-05-25

▶ ⊙ Stale **bug: IVF is throwing errors in ODD full chain** (#3120)
by @andiwand, updated on 2024-05-18

▶ ⊙ Stale **Documentation on geometry misalignments** (#2940)
by @paulgessinger, updated on 2024-05-17

▶ ⊙ Stale **Bug: material map auto tuning only considers the "Default" mapping type** (#2942)
by @plariono, updated on 2024-05-17

▶ ⊙ Stale **bug: some dependencies in setup script wrong** (#3014)
by @AJPfleger, updated on 2024-05-17

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- ▶ ⊙ Stale **perf: CKF measurement selector runs after track state creation** (#3081)
  by @andiwand, updated on 2024-05-05

- ▶ ⊙ Stale **perf: CKF general** (#3082)
  by @andiwand, updated on 2024-05-05

- ▶ ⊙ Stale **Some 'toStream' implementations change the state of 'std::ostream'** (#3079)
  by @andiwand, updated on 2024-05-04

- ▶ ⊙ Stale **HepMC plugin looks incomplete** (#3050)
  by @andiwand, updated on 2024-04-26

- ▶ ⊙ Stale **'EigenStepper' (and extensions) cannot be easily extended for dense environment covariance transport** (#2868)
  by @andiwand, updated on 2024-03-20

- ▶ ⊙ Stale **'Stepper' and 'Navigator' cannot be configured by 'PropagatorOptions'** (#2861)
  by @andiwand, updated on 2024-02-09

- ▶ ⊙ Stale **Fitters use 'PropagatorPlainOptions' and not 'PropagatorOptions'** (#2862)
  by @andiwand, updated on 2024-02-09

- ▶ ⊙ Stale **'AdaptiveGridTrackDensity' has a hidden 'd0' cut** (#2840)
  by @andiwand, updated on 2024-01-17

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- ▶ ⊙ Stale **Duplication in 'AdaptiveGridTrackDensity' and 'GaussianGridTrackDensity'** (#2841)
  by @andiwand, updated on 2024-01-17

- ▶ ⊙ Stale **EDM4hep parameter conversion should use jacobians directly** (#2813)
  by @paulgessinger, updated on 2024-01-11

- ▶ ⊙ Stale **'Surface::boundToFreeJacobian' could also use 'FreeVector' parameters** (#2810)
  by @andiwand, updated on 2024-01-10

- ▶ ⊙ Stale **Telescope detector cookbook** (#2800)
  by @paulgessinger, updated on 2024-01-10

- ▶ ⊙ Stale **Write CKF documentation** (#2794)
  by @paulgessinger, updated on 2024-01-10

- ▶ ⊙ Stale **Add description of Blueprint tree and how it can be used to create layerless detector.** (#2785)
  by @paulgessinger, updated on 2024-01-10

- ▶ ⊙ Stale **'SurfaceReached' aborter is messing with the step size** (#2738)
  by @andiwand, updated on 2023-12-28

- ▶ ⊙ Stale **Propagation state cannot be initialized outside the propagation** (#2736)
  by @andiwand, updated on 2023-12-28

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- ▶ ⊙ Stale **FPE: AMVF keepNewVertex** (#2590)
  by @andiwand, updated on 2023-11-26

- ▶ ⊙ Stale **Track finding rework** (#2320)
  by @paulgessinger, updated on 2023-11-11

- ▶ ⊙ Stale **Propagator step count limit reached and Step size adjustment exceeds maximum trials** (#2469)
  by @CarloVarni, updated on 2023-11-11

- ▶ ⊙ Stale **[Feature Request] Reference surface for tracking algorithm is hardcoded to be at origin** (#2525)
  by @janheinri, updated on 2023-11-09

- ▶ ⊙ Stale **Incorrect material interaction in backward propagation ?** (#2429)
  by @Corentin-Allaire, updated on 2023-10-06

- ▶ ⊙ Stale **Expand TrackingGeometry building from DD4hep with user given input** (#2403)
  by @asalzburger, updated on 2023-09-27

- ▶ ⊙ Stale **FPE: Bethe-Heithler gamma_distribution** (#2346)
  by @paulgessinger, updated on 2023-09-03

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- ▶ ⊙ Stale **FPE: GaussianMixtureReduction** (#2347)
  by @paulgessinger, updated on 2023-09-03

- ▶ ⊙ Stale **Inconsistent use of 'VolumeMaterialInteraction' thickness** (#2279)
  by @andiwand, updated on 2023-08-05

- ▶ ⊙ Stale **Move some Digitization code from FATRAS to Core?** (#2230)
  by @benjaminhuth, updated on 2023-07-28

- ▶ ⊙ Stale **MultiTrajectory buffer default constructible** (#2154)
  by @tboldagh, updated on 2023-07-20

- ▶ ⊙ Stale **Track nDoF only returns the sum of calibrated size and not the actual DoFs.** (#2076)
  by @pbutti, updated on 2023-06-22

- ▶ ⊙ Stale **Track parameter estimation algorithm return parameter on the first seed SP surface** (#2037)
  by @Corentin-Allaire, updated on 2023-05-25

- ▶ ⊙ Stale **Expose individual steps of track reconstruction in full_chain python scripts** (#1997)
  by @tboldagh, updated on 2023-05-20

- ▶ ⊙ Stale **Different results for full_chain_itk when running locally vs lxplus** (#1819)
  by @CarloVarni, updated on 2023-05-09

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- ▶ ⊙ Stale **Bug: Probable Issues in Bevelled Cylinder Implementation** (#1238)
  by @rahmans1, updated on 2023-05-09

- ▶ ⊙ Stale **Physmon throws many WARNINGs on Bethe-Heitler approximation** (#1748)
  by @paulgessinger, updated on 2023-05-09

- ▶ ⊙ Stale **vertex fitting and duplicate tracks** (#1992)
  by @rubihason, updated on 2023-05-09

- ▶ ⊙ Stale **Estimate Track Parameters from Seeds use only one surface. What about strips?** (#1895)
  by @CarloVarni, updated on 2023-05-09

- ▶ ⊙ Stale **Bug: Unpredicatable navigation in layer with overlapping surface** (#1852)
  by @Corentin-Allaire, updated on 2023-03-25

- ▶ ⊙ Stale **Make central minimum track momentum threshold** (#1761)
  by @paulgessinger, updated on 2023-01-21

- ▶ ⊙ Stale **Optimal seeding parameters for a detector** (#1699)
  by @CouthuresJeremy, updated on 2023-01-05

- ▶ ⊙ Stale **Particle smearing assertion with Geant4** (#1603)
  by @benjaminhuth, updated on 2022-12-21

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- ▶ ⊙ Stale **Documentation update: Examples** (#1420)
  by @paulgessinger, updated on 2022-11-23

- ▶ ⊙ Stale **Documentation update: How-to (core)** (#1422)
  by @paulgessinger, updated on 2022-11-23

- ▶ ⊙ Stale **Documentation update: Plugins** (#1421)
  by @paulgessinger, updated on 2022-10-22

- ▶ ⊙ Stale **Vertexing produces vertex candidates that are unreasonable** (#1361)
  by @paulgessinger, updated on 2022-10-22

- ▶ ⊙ Stale **Optionally have the vertex finding recalculate perigee parameters relative to consistent reference** (#1482)
  by @paulgessinger, updated on 2022-10-01

- ▶ ⊙ Stale **Ambiguous perigees with low momentum** (#1386)
  by @andiwand, updated on 2022-09-20

- ▶ ⊙ Stale **Fatras: Bethe-Heitler calculation wrong?** (#1437)
  by @asalzburger, updated on 2022-09-20

- ▶ ⊙ Stale **Some writers performs their writes in the destructor** (#881)
  by @paulgessinger, updated on 2022-08-11

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- ▶ ⊙ Stale **Magnetic Field Storage** (#1239)
  by @osbornjd, updated on 2022-06-12

- ▶ ⊙ Stale **Cut tube segment dd4hep conversion tests** (#1146)
  by @rahmans1, updated on 2022-05-25

- ▶ ⊙ Stale **Bug: issue on first build after DD4hep update on system with globaly installed acts** (#1139)
  by @gagnonlg, updated on 2022-02-22

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

- ▶ ⊙ Stale **Improvement: Estimate track parameters from seed at perigee surface** (#1036)
  by @XiaocongAi, updated on 2021-11-10

- ▶ ⊙ Stale **Tracking for TPC/DC without surfaces** (#165)
  by @FabianKlimpel, updated on 2021-11-04

- ▶ ⊙ Stale **BoundingBox tests fail on double precision** (#752)
  by @paulgessinger, updated on 2021-11-04