Pull request and issue summary for acts-project/acts

June 18, 2024

acts-project/acts: PRs merged between 2024-06-11 and 2024-06-18 |

- ▶ feat(gx2f): support non-diagonal covariances (#3240) by @AJPfleger, reviewed by @andiwand, merged on 2024-06-11
- Feat: Add 'TryAllOverstepNavigator' (#2850) by @andiwand, reviewed by @benjaminhuth, merged on 2024-06-11
- ▶ feat: geo model detector elements, converters (#3256) by @benjaminhuth, reviewed by @andiwand, merged on 2024-06-11
- ▶ horefactor!: (gx2f) remove 'zeroField' option and make implicit (#3276) by @AJPfleger, reviewed by @andiwand, merged on 2024-06-12
- ▶ feat(gx2f): support n-dimensional measurements (#3264) by @AJPfleger, reviewed by @andiwand, merged on 2024-06-12
- Image: by docs: Update navigators documentation (#3271) by @andiwand, reviewed by @AJPfleger, merged on 2024-06-12
- ▶ 1/20 feat: change to detector json converter for detray (#3277) by @asalzburger, ✓ reviewed by @niermann999, merged on 2024-06-12

acts-project/acts: PRs merged between 2024-06-11 and 2024-06-18 II

- ► feat: adding some functionality to material mapping checks (#3266) by @asalzburger, comment by @Corentin-Allaire, merged on 2024-06-13
- ▶ feat!: (gx2f) generalise ndf calcualtion for error 'NotEnoughMeasurements' (#3278) by @AJPfleger,
 reviewed by @andiwand, merged on 2024-06-13
- ▶ fix: Early exit in the seeding if there are no space points for top/bottom... (#3284) by @CarloVarni, ✓ reviewed by @LuisFelipeCoelho, merged on 2024-06-13
- ▶ ↓ build: Exclude Examples tests from Core tests, phony target (#3279) by @paulgessinger, ✓ reviewed by @benjaminhuth, merged on 2024-06-13
- ▶ feat: Introduce scope failure threshold helper (#3290) by @paulgessinger, reviewed by @AJPfleger, merged on 2024-06-13
- ► i: Add dependabot configuration (#3265) by @paulgessinger, V reviewed by @AJPfleger, merged on 2024-06-13
- See perf: Avoid two divisions in parameter estimation from seeds (#3287) by @CarloVarni, reviewed by @andiwand, merged on 2024-06-14
- ▶ feat: establishing Detector from GeoModel with db blueprint (Gen2) (#3289) by @asalzburger, ✓ reviewed by @benjaminhuth, merged on 2024-06-14

acts-project/acts: PRs merged between 2024-06-11 and 2024-06-18 $\,$ III

- ▶ feat: middle SP z selection as result of grid binning (#3286) by @CarloVarni, reviewed by @LuisFelipeCoelho, merged on 2024-06-14
- ▶ horefactor(gx2f): make constant TrackStatePropMask (#3293) by @AJPfleger, ✓ reviewed by @andiwand, merged on 2024-06-14
- ▶ feat: Cylinder and Disc surface merging (#3288) by @paulgessinger, reviewed by @andiwand, merged on 2024-06-14
- ▶ how refactor(gx2f): clean up logging before material PR (#3294) by @AJPfleger, reviewed by @andiwand, merged on 2024-06-15
- ► fix(gx2f): forward propagation error (#3296) by @AJPfleger, reviewed by @andiwand, merged on 2024-06-16
- ► bo docs: update links to avoid redirects (#3297) by @AJPfleger, ✓ reviewed by @andiwand, merged on 2024-06-16
- ► chore: Replace legacy limits with std::numeric_limits or similar for consistency (#3298) by @AJPfleger, are reviewed by @paulgessinger, merged on 2024-06-17
- boos: update linkcheck (#3307)

by @AJPfleger, 🏹 reviewed by @benjaminhuth, merged on 2024-06-18

acts-project/acts: Open PRs I

- ▶ î refactor: replace C-style 'type_t' with 'std::type_t' (#3301) by @AJPfleger, ✓ reviewed by @LuisFelipeCoelho, updated on 2024-06-18
- fix: Configuration of highOccupancyConfig for itk Seeding example (#3295) by @pbutti, reviewed by @LuisFelipeCoelho, updated on 2024-06-18
- In refactor!: Remove 'overstepLimit' from 'EigenStepper' (#3224) by @andiwand, reviewed by @benjaminhuth, updated on 2024-06-18
- feat: Add Frustum/Octree Navigation (#3306) by @Matthewharri,review requestedreview requested, updated on 2024-06-18
- Ci: update black-version and pre-commit mirror (#3305) by @AJPfleger, V reviewed by @paulgessinger, updated on 2024-06-18
- build, fix: Public Header Relocatability, main branch (2024.06.18.) (#3303) by @krasznaa, no reviewer, updated on 2024-06-18
- Ci: generalise job size_t to type_t (#3302) by @AJPfleger, no reviewer, updated on 2024-06-18
- In refactor!: Remove 'Measurement' from Core (#3282) by @andiwand, reviewed by @paulgessinger, updated on 2024-06-18

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- ▶ î feat: covfie plugin (#3117) by @fredevb, ☑ comment by @fredevb, updated on 2024-06-17
- feat: Telescope style seeding (#3300) by @ssdetlab, no reviewer, updated on 2024-06-17
- feat: Convert geoShapes to DetectorVolumes (#3268) by @Matthewharri, comment by @paulgessinger, updated on 2024-06-17
- Stale feat: adding relative transformation + calculation of com function (#3005) by @LaraCalic, Comment by @AJPfleger, updated on 2024-06-16
- ► \$\[Stale feat: introduction obj simhit writer (#3180) by @asalzburger, ↑ no reviewer, updated on 2024-06-15
- feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, Comment by @paulgessinger, updated on 2024-06-14
- In test: Add option to only build matching unittests (#3233) by @benjaminhuth, included on 2024-06-14
- build(deps): bump actions/labeler from 4 to 5 (#3291) by @dependabot[bot],review requested, updated on 2024-06-14

acts-project/acts: Open PRs III

- ► ↑ feat: GSF Debugger (#2682)
 - by @benjaminhuth, 🏹 comment by @benjaminhuth, updated on 2024-06-14
- ▶ î feat: traccc plugin (conversion) (#3281) by @fredevb, ✓ comment by @paulgessinger, updated on 2024-06-13
- refactor!: Axis improvements: move from detail + CTAD (#3257) by @paulgessinger, V reviewed by @asalzburger, updated on 2024-06-13
- feat: Add method for currentPortal in DetectorNavigator (#3269) by @Matthewharri, no reviewer, updated on 2024-06-12
- In refactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, no reviewer, updated on 2024-06-11
- in refactor!: Rewrite 'BoundaryCheck' (#3170) by @andiwand, in comment by @benjaminhuth, updated on 2024-06-11
- In refactor!: Use track container in Core 'CKF' and pass track proxies to delegates (#3161) by @andiwand, indicated on 2024-06-11
- In refactor!: Seed filter container policy (#3136) by @CouthuresJeremy, in comment by @CouthuresJeremy, updated on 2024-06-10

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- In refactor!: Move 'Navigator' external surfaces into options (#3189) by @andiwand, no reviewer, updated on 2024-06-10
- In refactor!: Refactor direct navigator initialization (#3183) by @andiwand, no reviewer, updated on 2024-06-08
- Split propagator options (#3181) by @andiwand, no reviewer, updated on 2024-06-08
- In refactor!: Refactor navigator options (#3182) by @andiwand, no reviewer, updated on 2024-06-08
- In refactor!: Update TrackingVolume constructors (#3250) by @paulgessinger, V reviewed by @andiwand, updated on 2024-06-07
- feat: Geometry agnostic space point maker (#2890) by @Alon114, no reviewer, updated on 2024-06-06
- In refactor: Do not allocate memory if the surface is connected with a detector el... (#3069) by @junggjo9, or comment by @AJPfleger, updated on 2024-06-06
- refactor!: Remove 'CylinderBounds::inside3D' (#3204) by @andiwand, reviewed by @paulgessinger, updated on 2024-06-05

acts-project/acts: Open PRs V

- refactor: Some internal GSF refactorings (#2697)
 by @benjaminhuth, X changes requested by @andiwand, updated on 2024-05-28
- refactor: Use Core CKF extrapolation after inwards extension (#3195) by @andiwand, <u>no reviewer</u>, updated on 2024-05-22
- In refactor: change the definition of the rotation parameters (#2021) by @XiaocongAi, reviewed by @paulgessinger, updated on 2024-05-22
- Stale refactor: unify the GPU device selection ExaTrkX; local variables declaration in FRNN lib (#2925)
 by @hrzhao76, V comment by @hrzhao76, updated on 2024-05-11
- Stale refactor: Change the masking of the Geometry Identifiers (#2965) by @dimitra97, no reviewer, updated on 2024-05-11
- Image: WIP feat(gx2f): material effects multiple scattering (#3292) by @AJPfleger, no reviewer, updated on 2024-06-18
- Similar WIP ci: extend black formatting to jupyter notebooks (#3304) by @AJPfleger, no reviewer, updated on 2024-06-18

acts-project/acts: Open PRs VI

- ▶ ↑ WIP ci: Update Cl job to newer OS (drop ubuntu 20.04, centos7/8) (#3227) by @AJPfleger, ✓ comment by @andiwand, updated on 2024-06-18
- Image: WIP refactor: path handling to use 'std::filesystem' (#3308) by @AJPfleger, no reviewer, updated on 2024-06-18
- Similar WIP feat: Detray plugin geometry (#3299) by @EleniXoch, no reviewer, updated on 2024-06-16
- ► ↑ WIP refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237) by @andiwand, ✓ reviewed by @paulgessinger, updated on 2024-06-14
- Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865) by @andiwand, no reviewer, updated on 2024-06-14
- Stale feat: Propagator Helpers (#2945) by @andiwand, no reviewer, updated on 2024-06-13

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- Fix: Switch to layer targeting in any case, remove condition to skip to boundaries (#3280) by @benjaminhuth, no reviewer, updated on 2024-06-13
- Image: WIP refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238) by @andiwand, reviewed by @benjaminhuth, updated on 2024-06-13
- Image: WIP refactor: Resolve surfaces on initialization in 'Navigator' (#3283) by @andiwand, no reviewer, updated on 2024-06-13
- Fix (gx2f): use all states for 'jacobianFromStart' (#3274) by @AJPfleger, no reviewer, updated on 2024-06-12
- Image: WIP tmp: Test pixel/strip hole branch stopper in Examples track finding (#3273) by @andiwand, no reviewer, updated on 2024-06-11
- feat: Add per event timing (#3124) by @CouthuresJeremy, Comment by @andiwand, updated on 2024-06-11

acts-project/acts: Open PRs VIII

- Image: WIP feat: Hashing seeding algorithm (#3148) by @CouthuresJeremy, Image: comment by @CouthuresJeremy, updated on 2024-06-11
- Image: WIP feat: geo model detector elements, converters and plugins (#3213) by @asalzburger, managed comment by @benjaminhuth, updated on 2024-06-11
- Stale refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger, no reviewer, updated on 2024-06-09
- ▶ ↑ WIP refactor!: Template on track container frontend 'TrackContainer' (#3193) by @andiwand, ✓ comment by @paulgessinger, updated on 2024-06-05
- ▶ ↑ WIP refactor!: Track EDM brush over (#3192) by @andiwand, ✓ comment by @andiwand, updated on 2024-06-03
- Image: WIP refactor: Remove target volume estimation from 'Navigator' (#3242) by @andiwand, no reviewer, updated on 2024-06-01
- Image: WIP feat: Reverse track finding for Examples (#3200) by @andiwand, no reviewer, updated on 2024-05-27

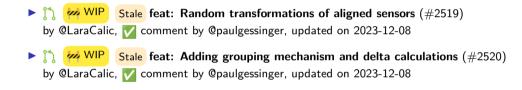
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- Markov WIP feat: Variable size measurement (#3107) by @andiwand, V comment by @andiwand, updated on 2024-05-27
- Stale refactor: add geohook for fast digitization range selection to itk example (#2089) by @niermann999, no reviewer, updated on 2024-05-25
- Stale refactor!: Surface returns transform by value (#2527) by @asalzburger, no reviewer, updated on 2024-05-25
- Stale refactor: Physmon in pytest (#2575)
 by @paulgessinger, V comment by @paulgessinger, updated on 2024-05-25
- Similar WIP fix: Correct the Sign of Drift Distance (#2538) by @beomki-yeo, Comment by @paulgessinger, updated on 2024-05-25
- Stale feat: Add GSF component momentum cut to stabilize fit (#2661) by @benjaminhuth, volument by @benjaminhuth, updated on 2024-05-25

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- MIP feat: Covariance transport for dense propagation (#2869) by @andiwand, no reviewer, updated on 2024-05-22
- Space point implementation (#1900)
 by @CarloVarni, V comment by @paulgessinger, updated on 2024-05-22
- Stale feat: Add CMake presets (#3135)
 - by @andiwand, 🚹 no reviewer, updated on 2024-05-22
- Stale test: Test field invariance of direction uncertainty transport (#2983) by @andiwand, no reviewer, updated on 2024-05-04
- Stale chore: Introduce macOS arm64 CI (#2755) by @paulgessinger, no reviewer, updated on 2024-04-17
- Stale perf: performance plots (#2844) by @LaraCalic, <u>no reviewer</u>, updated on 2024-03-06
- Stale feat: Structured logging (#2684) by @paulgessinger, no reviewer, updated on 2023-12-21

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acts-project/acts: New stale Issues / PRs since 2024-06-11 |

- ► \$\[Stale feat: introduction obj simhit writer (#3180) by @asalzburger, ↑ no reviewer, updated on 2024-06-15
- Stale feat: adding relative transformation + calculation of com function (#3005) by @LaraCalic, no reviewer, updated on 2024-06-16
- Stale feat: Propagator Helpers (#2945) by @andiwand, no reviewer, updated on 2024-06-13
- Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865) by @andiwand, no reviewer, updated on 2024-06-14

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- Stale feat: adding relative transformation + calculation of com function (#3005) by @LaraCalic, no reviewer, updated on 2024-06-16
- ► \$\int Stale feat: introduction obj simhit writer (#3180) by @asalzburger, ↑ no reviewer, updated on 2024-06-15
- Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865) by @andiwand, no reviewer, updated on 2024-06-14
- ▶ 1 WIP Stale feat: Propagator Helpers (#2945) by @andiwand, ↑ no reviewer, updated on 2024-06-13
- Stale refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger, no reviewer, updated on 2024-06-09
- 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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- Stale refactor: add geohook for fast digitization range selection to itk example (#2089) by @niermann999, no reviewer, updated on 2024-05-25
- Stale refactor!: Surface returns transform by value (#2527) by @asalzburger, no reviewer, updated on 2024-05-25
- Stale refactor: Physmon in pytest (#2575) by @paulgessinger, no reviewer, updated on 2024-05-25
- 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

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- Stale feat: Add CMake presets (#3135) by @andiwand, no reviewer, updated on 2024-05-22
- 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
- Stale refactor: unify the GPU device selection ExaTrkX; local variables declaration in FRNN lib (#2925) by @hrzhao76, no reviewer, updated on 2024-05-11
- Stale refactor: Change the masking of the Geometry Identifiers (#2965) by @dimitra97, no reviewer, updated on 2024-05-11

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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 test: Test field invariance of direction uncertainty transport (#2983) by @andiwand, no reviewer, updated on 2024-05-04
- Stale HepMC plugin looks incomplete (#3050) by @andiwand, updated on 2024-04-26
- Stale chore: Introduce macOS arm64 CI (#2755) by @paulgessinger, no reviewer, updated on 2024-04-17
- Stale 'EigenStepper' (and extensions) cannot be easily extended for dense environment covariance transport (#2868)
 by @andiwand, updated on 2024-03-20

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- Merric WIP Stale perf: performance plots (#2844)
 by @LaraCalic, no reviewer, updated on 2024-03-06
- 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
- 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

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- 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 Describe replacements of TrackingGeometry, TrackingVolume etc and how the classes map to one another. (#2786)
 by @paulgessinger, updated on 2024-01-10
- Stale Describe how the legacy geometry used to work and how it differs from the layerless geometry (#2787)
 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
- ▶ [] [™] WIP Stale feat: Structured logging (#2684)

by @paulgessinger, no reviewer, updated on 2023-12-21

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- Stale feat: Random transformations of aligned sensors (#2519) by @LaraCalic, no reviewer, updated on 2023-12-08
- Stale feat: Adding grouping mechanism and delta calculations (#2520) by @LaraCalic, no reviewer, updated on 2023-12-08
- 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

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- 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
- Stale FPE: GaussianMixtureReduction (#2347) by @paulgessinger, updated on 2023-09-03
- Stale FPE: RootTrajectoryStatesWriter (#2348) by @paulgessinger, updated on 2023-09-03
- Stale FPE: RootTrajectorySummaryWriter (#2284) by @paulgessinger, updated on 2023-08-12
- 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

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- 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
- 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 SpacePoint EDM design (#1971) by @CarloVarni, updated on 2023-05-09
- Stale vertex fitting and duplicate tracks (#1992) by @rubihason, updated on 2023-05-09

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- 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
- 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

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- 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 Full chain vertexing with AMVF (#1406) by @paulgessinger, updated on 2022-10-01
- Stale Vertexing produces unexpectedly poor efficiency (#1362) by @paulgessinger, updated on 2022-09-20
- 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
- Stale Vertexing issues observed in python vertexing example (#1091) 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 Add example (+test) for vertex fitting with constraints (#1100) by @paulgessinger, updated on 2022-01-07
- 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