Pull request and issue summary for acts-project/acts

July 16, 2024

acts-project/acts: PRs merged between 2024-07-09 and 2024-07-16 $\,$ I

- ▶ feat: Add 'nCleanVtx' to 'VertexPerformanceWriter' in Examples (#3352) by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2024-07-09
- For feat: Select space points used to fill the seeding grid via delegate function. Add experimentCuts support (#3342) by @pbutti, reviewed by @andiwand, merged on 2024-07-09
- ► ci: Add GeoModel Plugin to CI (#3327) by @benjaminhuth, V reviewed by @paulgessinger, merged on 2024-07-10
- ► ci: Re-enable the Examples unit tests in the CI (#3355) by @paulgessinger, V reviewed by @benjaminhuth, merged on 2024-07-10
- ► fix: Clean includes in 'Geant4Manager' (#3362) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-10
- ► refactor!: Use track container in Core 'CKF' and pass track proxies to delegates (#3161) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-10
- **•** \searrow refactor!: Track EDM brush over (#3192)

by @andiwand, 🔽 reviewed by @paulgessinger, merged on 2024-07-10

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- ► is refactor: Truth graph metrics for Exa.TrkX with separate algorithm (#3354) by @benjaminhuth, V reviewed by @andiwand, merged on 2024-07-11
- ▶ feat: Add compatibility for PODIO 1.x (#3360) by @paulgessinger, ✓ reviewed by @pbutti, merged on 2024-07-11
- ▶ feat: Improve Athena Dump reader (#3358) by @benjaminhuth, reviewed by @andiwand, merged on 2024-07-12
- Image: Correct variables name ACTS_BUILD_EXAMPLES_UNIT_TESTS to ACTS_BUILD_EXAMPLES_UNITTESTS (#3369) by @CarloVarni, reviewed by @paulgessinger, merged on 2024-07-12
- ▶ feat: gen2 navigation debugged (#3365) by @asalzburger, reviewed by @andiwand, merged on 2024-07-12
- Image: book of the second s

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- So test: Reduce number of combinations in TrackParametersDatasets (#3370) by @paulgessinger, reviewed by @andiwand, merged on 2024-07-12
- ▶ \$\[\$\[\$\[\$\[\$\] otos: Label as docs changes to rst files (#3373) by @CarloVarni, \[\$\[\$\[\$\] reviewed by @paulgessinger, merged on 2024-07-12
- ▶ how refactor!: Split propagator options (#3181) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-12
- ► fix: SonarQube fixes as follow up to #3337 (#3339) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-07-12
- ▶ build: Bump minimum required C++ standard to 20 (#3345) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-07-13
- Image: Section of the section of
- ► ci: Move missing include test from c++17 to c++20 (#3377) by @CarloVarni, V reviewed by @andiwand, merged on 2024-07-14
- ► ci: Add pythia8 particles and vertices to physmon output (#3375) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-07-14

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- ► fix: Downgrade Pythia8 to v10 from v12 (#3384) by @paulgessinger, ✓ reviewed by @andiwand, merged on 2024-07-15
- ▶ how refactor!: Refactor navigator options (#3182) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-15
- ► fix: Fix and refactor digitization parametrization in Examples (#3386) by @andiwand, ✓ reviewed by @benjaminhuth, merged on 2024-07-16
- ▶ \$-> refactor!: use c++20 concept to define insert function for different types of seed collections (#3367) by @CarloVarni, ✓ reviewed by @paulgessinger, merged on 2024-07-16
- ► chore: Drop 'IWYU' (#3390) by @andiwand, ✓ reviewed by @paulgessinger, merged on 2024-07-16
- ► fix: Use 70% truth matching threshold for 'VertexPerformanceWriter' in Examples (#3368) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-16
- For refactor!: Clean up 'GainMatrixUpdater' a bit (#3387) by @andiwand, reviewed by @paulgessinger, merged on 2024-07-16

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- refactor!: Refactor direct navigator initialization (#3183) by @andiwand, V reviewed by @paulgessinger, updated on 2024-07-16
- Chore: Use C++20 concepts unconditionally (#3385) by @paulgessinger, reviewed by @andiwand, updated on 2024-07-16
- In refactor!: Remove redundant variables from Seed filter state (#3393) by @CarloVarni, no reviewer, updated on 2024-07-16
- ▶ î fix: detray plugin (cmake flags, Cl, and compile errors) (#3363) by @fredevb, ✓ comment by @EleniXoch, updated on 2024-07-16
- ▶ î refactor: Refactor 'RootTrackStateWriter' in Examples (#3374) by @andiwand, ☑ comment by @andiwand, updated on 2024-07-16
- In refactor!: Move 'Navigator' external surfaces into options (#3189) by @andiwand, and comment by @paulgessinger, updated on 2024-07-16
- fix: Poke at Pythia8 to make it reproducible (#3392) by @paulgessinger, no reviewer, updated on 2024-07-16
- feat: Hashing seeding algorithm (#3148) by @CouthuresJeremy, comment by @paulgessinger, updated on 2024-07-16

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- feat: new material comparison script (#3389) by @asalzburger, or comment by @asalzburger, updated on 2024-07-16
- feat: traccc chain in examples (common chain logic and CPU chain) (#3320) by @fredevb, no reviewer, updated on 2024-07-16
- ► \$\[Stale feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, \[comment by @paulgessinger, updated on 2024-07-15 \]
- ► \$\int_Stale test: Add option to only build matching unittests (#3233) by @benjaminhuth, \$\vee comment by @benjaminhuth, updated on 2024-07-14
- feat: Telescope style seeding (#3300) by @ssdetlab, no reviewer, updated on 2024-07-13
- ▶ î feat: traccc plugin (conversion) (#3281) by @fredevb, ☑ comment by @paulgessinger, updated on 2024-07-12
- In refactor: Move MLAmbiguitySolver to Core (#3272) by @Corentin-Allaire, no reviewer, updated on 2024-07-11
- In refactor: Make the MagneticFieldContext & GeometryContext to be hard types (#3349) by @junggjo9, X changes requested by @andiwand, updated on 2024-07-11

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▶ î feat: covfie plugin (#3117)

by @fredevb, 🏹 comment by @paulgessinger, updated on 2024-07-11

- feat: GeoShapes to DetectorVolumes and GeoMaterial Converters (#3268) by @Matthewharri, comment by @Matthewharri, updated on 2024-07-11
- feat!: Resurrect original 'AdaptiveGridTrackDensity'; Move new impl to 'SparseGridTrackDensity' (#3340) by @andiwand, no reviewer, updated on 2024-07-10
- feat: Introduce the usage of the geomodel converters for the Muon System (#3348) by @dimitra97, and comment by @dimitra97, updated on 2024-07-09
- ► \$\[\screwthinksymbol{Stale} feat: Geometry agnostic space point maker (#2890) by @Alon114, \(\cong no reviewer, updated on 2024-07-06)\)
- refactor: path handling to use 'std::filesystem' (#3308) by @AJPfleger, X changes requested by @stephenswat, updated on 2024-07-06
- fix: update the DD4hep requirements when the ODD is built (#3330) by @Corentin-Allaire, or comment by @Corentin-Allaire, updated on 2024-06-28

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- Stale refactor: Use Core CKF extrapolation after inwards extension (#3195) by @andiwand, no reviewer, updated on 2024-06-21
- refactor: change the definition of the rotation parameters (#2021) by @XiaocongAi, reviewed by @paulgessinger, updated on 2024-06-21
- Style: Update clang-format to v18 (#3319) by @stephenswat, no reviewer, updated on 2024-06-20
- Stale feat: introduction obj simhit writer (#3180) by @asalzburger, no reviewer, updated on 2024-06-15
- In WIP feat: Prototracks-to-Tracks converter & refactor (#3357) by @benjaminhuth, reviewed by @andiwand, updated on 2024-07-16
- Image: WIP refactor: Keep outliers and material states at the end of track in Core CKF (#3391) by @andiwand, no reviewer, updated on 2024-07-16
- Image: WIP refactor: Use 'requires' in Track EDM (#3388) by @paulgessinger, A no reviewer, updated on 2024-07-15

acts-project/acts: Open PRs V

- In WIP refactor!: Move context from 'PropagatorOptions' to 'propagate' (#3378) by @andiwand, no reviewer, updated on 2024-07-15
- Image: WIP refactor!: Move context from fitter options to fitter calls (#3379) by @andiwand, no reviewer, updated on 2024-07-15
- Mercial mapping options to material mapping calls (#3381)
 by @andiwand, no reviewer, updated on 2024-07-15
- Image: WIP refactor!: Move context from vertexing options to vertexing calls (#3380) by @andiwand, no reviewer, updated on 2024-07-15
- Image: WIP refactor!: Move context from stepper state to stepper calls (#3382) by @andiwand, no reviewer, updated on 2024-07-15
- Space point implementation (#1900)
 by @CarloVarni, or comment by @paulgessinger, updated on 2024-07-14

acts-project/acts: Open PRs VI

- ► 1 WIP Stale refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237) by @andiwand, reviewed by @paulgessinger, updated on 2024-07-14
- ► ↑ WIP Stale refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238) by @andiwand, ✓ reviewed by @benjaminhuth, updated on 2024-07-13
- Stale refactor: Resolve surfaces on initialization in 'Navigator' (#3283) by @andiwand, no reviewer, updated on 2024-07-13
- Image: WIP feat: traccc cuda example (#3372) by @fredevb, no reviewer, updated on 2024-07-12
- Similar WIP tmp: Boundary tolerance for navigation and track finding (#3366) by @andiwand, no reviewer, updated on 2024-07-12
- fix(gx2f): use all states for 'jacobianFromStart' (#3274) by @AJPfleger, no reviewer, updated on 2024-07-12
- Mercentric Seeder' for Examples (#3364) by @andiwand, Comment by @paulgessinger, updated on 2024-07-12

acts-project/acts: Open PRs VII

- ▶ \\ ₩ WIP Stale feat: Add per event timing (#3124)
 - by @CouthuresJeremy, 🏹 comment by @andiwand, updated on 2024-07-11
- Stale feat: geo model detector elements, converters and plugins (#3213) by @asalzburger, Comment by @benjaminhuth, updated on 2024-07-11
- ▶ ↑ WIP refactor!: Template on track container frontend 'TrackContainer' (#3193) by @andiwand, ✓ comment by @paulgessinger, updated on 2024-07-10
- In WIP refactor: Rework physics performance monitoring for Examples (#3359) by @andiwand, <u>no reviewer</u>, updated on 2024-07-10
- ▶ î will be the provided and the pro
- Stale refactor: Remove target volume estimation from 'Navigator' (#3242) by @andiwand, <u>no reviewer</u>, updated on 2024-07-01
- Image: WIP test: Test field invariance of direction uncertainty transport (#2983) by @andiwand, no reviewer, updated on 2024-06-27

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- Similar WIP feat: Reverse track finding for Examples (#3200) by @andiwand, no reviewer, updated on 2024-06-27
- Image: WIP tmp: Test pixel/strip hole branch stopper in Examples track finding (#3273) by @andiwand, no reviewer, updated on 2024-06-25
- Image: WIP feat(gx2f): material effects multiple scattering (#3292) by @AJPfleger, no reviewer, updated on 2024-06-23
- Image: WIP refactor: add geohook for fast digitization range selection to itk example (#2089) by @niermann999, no reviewer, updated on 2024-06-22
- Image: WIP refactor!: Surface returns transform by value (#2527) by @asalzburger, no reviewer, updated on 2024-06-22
- Image: WIP feat: Covariance transport for dense propagation (#2869) by @andiwand, no reviewer, updated on 2024-06-21
- Mean Some internal GSF refactorings (#2697)
 by @benjaminhuth, X changes requested by @andiwand, updated on 2024-06-21

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In WIP refactor: Bump min json ver, make json keys static (#2968) by @paulgessinger, A no reviewer, updated on 2024-06-21

- Multiple feat: Add CMake presets (#3135)
 - by @andiwand, 🚹 no reviewer, updated on 2024-06-21
- Stale refactor: Replace 'EigenStepper' extension list with single extension (#2865) by @andiwand, no reviewer, updated on 2024-06-14
- Stale feat: Add GSF component momentum cut to stabilize fit (#2661) by @benjaminhuth, V comment by @benjaminhuth, updated on 2024-05-25

acts-project/acts: Issues opened since 2024-07-09 |

Multiple context references are in flight for track fitters and finder (#3383) by @andiwand, updated on 2024-07-15

acts-project/acts: New stale Issues / PRs since 2024-07-09 I

- Stale refactor: Resolve surfaces on initialization in 'Navigator' (#3283) by @andiwand, no reviewer, updated on 2024-07-13
- Stale refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238) by @andiwand, no reviewer, updated on 2024-07-13
- Stale refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237) by @andiwand, no reviewer, updated on 2024-07-14
- Stale test: Add option to only build matching unittests (#3233) by @benjaminhuth, no reviewer, updated on 2024-07-14
- Stale feat: geo model detector elements, converters and plugins (#3213) by @asalzburger, no reviewer, updated on 2024-07-11
- Stale feat: Add per event timing (#3124) by @CouthuresJeremy, no reviewer, updated on 2024-07-11
- Stale feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, no reviewer, updated on 2024-07-15

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- Stale feat: Misalignment shift and test check that only selected modules are shifted (#2843) by @LaraCalic, no reviewer, updated on 2024-07-15
- Stale refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator' (#3237) by @andiwand, no reviewer, updated on 2024-07-14
- Stale test: Add option to only build matching unittests (#3233) by @benjaminhuth, no reviewer, updated on 2024-07-14
- Stale refactor: Remove 'forceIntersectBoundaries' from 'Navigator' (#3238) by @andiwand, no reviewer, updated on 2024-07-13
- Stale refactor: Resolve surfaces on initialization in 'Navigator' (#3283) by @andiwand, no reviewer, updated on 2024-07-13
- Stale feat: Add per event timing (#3124) by @CouthuresJeremy, no reviewer, updated on 2024-07-11
- Stale feat: geo model detector elements, converters and plugins (#3213) by @asalzburger, no reviewer, updated on 2024-07-11

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- Stale bug: navigation suggests 'pathCorrection=inf' on cylinderSurface (#3267) by @AJPfleger, updated on 2024-07-07
- Stale feat: Geometry agnostic space point maker (#2890) by @Alon114, ↑ no reviewer, updated on 2024-07-06
- Stale Project build flags are difficult to control (2024.05.29.) (#3231) by @krasznaa, updated on 2024-07-04
- Stale refactor: Remove target volume estimation from 'Navigator' (#3242) by @andiwand, no reviewer, updated on 2024-07-01
- 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

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- 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
- 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 LCG compatibility (#2054) by @paulgessinger, 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

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

- 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
- 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 refactor: Use Core CKF extrapolation after inwards extension (#3195) by @andiwand, no reviewer, updated on 2024-06-21

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- 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 refactor: Replace 'EigenStepper' extension list with single extension (#2865) by @andiwand, no reviewer, updated on 2024-06-14
- 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
- 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

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- 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
- 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

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- 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
- 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

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- 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 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

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

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

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

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

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► • 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
- Stale Magnetic Field Storage (#1239) by @osbornjd, updated on 2022-06-12

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

- 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