Pull request and issue summary for acts-project/acts

June 11, 2024

acts-project/acts: PRs merged between 2024-06-04 and 2024-06-11 I

- ▶ **fix: enable gx2f-only mode in physmon** (#3243)
  by @AJPfleger, ✅ reviewed by @benjaminhuth, merged on 2024-06-04

- ▶ **fix: correct first, then draw for SVG portals** (#3244)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2024-06-04

- ▶ **refactor: Use unique_ptr for GlueVolumeDescriptor** (#3245)
  by @paulgessinger, ✅ reviewed by @AJPfleger, merged on 2024-06-04

- ▶ **fix: remove examples binaries relics** (#3251)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-06-05

- ▶ **fix: correct name string for some writers** (#3252)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2024-06-05

- ▶ **fix: applying patch at the right time** (#3246)
  by @asalzburger, ✅ reviewed by @fredevb, merged on 2024-06-05

- ▶ **fix: Put geomodel-G4 python bindings to correct place** (#3258)
  by @benjaminhuth, ✅ reviewed by @dimitra97, merged on 2024-06-06

- ▶ **test: remove missed unused boost includes** (#3260)
  by @AJPfleger, ✅ reviewed by @dimitra97, merged on 2024-06-06

acts-project/acts: PRs merged between 2024-06-04 and 2024-06-11 II

- ▶ ⎇ **feat: Silence DD4HEP if requested** (#3263)
  by @ntadej, ✅ reviewed by @andiwand, merged on 2024-06-07

- ▶ ⎇ **test: add for 'safeExp()'** (#3261)
  by @AJPfleger, ✅ reviewed by @dimitra97, merged on 2024-06-07

- ▶ ⎇ **fix: Add some missing headers for GCC 14** (#3259)
  by @benjaminhuth, ✅ reviewed by @paulgessinger, merged on 2024-06-07

- ▶ ⎇ **fix: setup with dependencies: robust python bindings** (#3262)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-06-07

- ▶ ⎇ **fix: loading TGeo geometry from volumes with global transform != 1** (#3236)
  by @pbutti, ✅ reviewed by @andiwand, merged on 2024-06-07

- ▶ ⎇ **feat: Add 'TryAllNavigator'** (#2849)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2024-06-07

- ▶ ⎇ **chore: update deprecated pydantic functions** (#3249)
  by @AJPfleger, ✅ reviewed by @dimitra97, merged on 2024-06-07

- ▶ ⎇ **refactor: physmon: *almost* same settings for GX2F and KF** (#3248)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-06-07

- ⎇ **fix(gx2f): use temporary track container** (#3247)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-06-08

- ⎇ **refactor: truth tracking examples: fix ODD setup and make default** (#3270)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2024-06-10

- ⎇ **feat: 'CylinderVolumeStack'** (#3065)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2024-06-10

- ⎇ **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

acts-project/acts: Open PRs I

- ⎇ **refactor!: Rewrite 'BoundaryCheck'** (#3170)
  by @andiwand, ✅ comment by @benjaminhuth, updated on 2024-06-11

- ⎇ **refactor: Move MLAmbiguitySolver to Core** (#3272)
  by @Corentin-Allaire, ⚠️ **no reviewer**, updated on 2024-06-11

- ⎇ **feat: covfie plugin** (#3117)
  by @fredevb, review requested, updated on 2024-06-11

- ⎇ **feat: geo model detector elements, converters** (#3256)
  by @benjaminhuth, ✅ reviewed by @andiwand, updated on 2024-06-11

- ⎇ **feat: adding some functionality to material mapping checks** (#3266)
  by @asalzburger, ✅ comment by @Corentin-Allaire, updated on 2024-06-11

- ⎇ **refactor!: Use track container in Core 'CKF' and pass track proxies to delegates** (#3161)
  by @andiwand, ✅ comment by @andiwand, updated on 2024-06-11

- ⎇ **refactor!: Axis improvements: move from detail + CTAD** (#3257)
  by @paulgessinger, ✅ comment by @paulgessinger, updated on 2024-06-10

- ⎇ **refactor!: Seed filter container policy** (#3136)
  by @CouthuresJeremy, ✅ comment by @CouthuresJeremy, updated on 2024-06-10

acts-project/acts: Open PRs II

- 🔀 **docs: Update navigators documentation** (#3271)
  by @andiwand, ✅ comment by @AJPfleger, updated on 2024-06-10

- 🔀 **refactor!: Move 'Navigator' external surfaces into options** (#3189)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-10

- 🔀 **refactor!: Refactor direct navigator initialization** (#3183)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-08

- 🔀 **refactor!: Split propagator options** (#3181)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-08

- 🔀 **refactor!: Refactor navigator options** (#3182)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-08

- 🔀 **feat: Add method for currentPortal in DetectorNavigator** (#3269)
  by @Matthewharri, ⚠️ **no reviewer**, updated on 2024-06-07

- 🔀 **feat: Convert geoShapes to DetectorVolumes** (#3268)
  by @Matthewharri, ⚠️ **no reviewer**, updated on 2024-06-07

- 🔀 **refactor!: Update TrackingVolume constructors** (#3250)
  by @paulgessinger, ✅ reviewed by @andiwand, updated on 2024-06-07

acts-project/acts: Open PRs III

- ▶ ⑂ **feat: Geometry agnostic space point maker** (#2890)
  by @Alonl14, ⚠️ **no reviewer**, updated on 2024-06-06

- ▶ ⑂ **ci: Add dependabot configuration** (#3265)
  by @paulgessinger, ✅ reviewed by @AJPfleger, updated on 2024-06-06

- ▶ ⑂ **refactor: Do not allocate memory if the surface is connected with a detector el...** (#3069)
  by @junggjo9, ✅ comment by @AJPfleger, updated on 2024-06-06

- ▶ ⑂ **refactor!: Remove 'CylinderBounds::inside3D'** (#3204)
  by @andiwand, ✅ reviewed by @paulgessinger, updated on 2024-06-05

- ▶ ⑂ **refactor: Remove 'lastHierarchySurfaceReached' from 'Navigator'** (#3237)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-30

- ▶ ⑂ **test: Add option to only build matching unittests** (#3233)
  by @benjaminhuth, ✅ comment by @andiwand, updated on 2024-05-29

- ▶ ⑂ **refactor: Some internal GSF refactorings** (#2697)
  by @benjaminhuth, ❌ changes requested by @andiwand, updated on 2024-05-28

- ▶ ⑂ **refactor!: Remove 'overstepLimit' from 'EigenStepper'** (#3224)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-25

acts-project/acts: Open PRs IV

- ⑂ **refactor: Use Core CKF extrapolation after inwards extension** (#3195)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-22

- ⑂ **refactor: change the definition of the rotation parameters** (#2021)
  by @XiaocongAi, ✅ reviewed by @paulgessinger, updated on 2024-05-22

- ⑂ **feat: adding relative transformation + calculation of com function** (#3005)
  by @LaraCalic, ✅ comment by @AJPfleger, updated on 2024-05-17

- ⑂ **feat: introduction obj simhit writer** (#3180)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-05-16

- ⑂ **feat: Misalignment shift and test check that only selected modules are shifted** (#2843)
  by @LaraCalic, ✅ comment by @paulgessinger, updated on 2024-05-15

- ⑂ `Stale` **refactor: unify the GPU device selection ExaTrkX; local variables declaration in FRNN lib** (#2925)
  by @hrzhao76, ✅ 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

acts-project/acts: Open PRs V

- ⑂ 🚧 WIP **tmp: Test Pixel/Strip branch stopper with track finding** (#3273)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-11

- ⑂ 🚧 WIP **feat(gx2f): support n-dimensional measurements** (#3264)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2024-06-11

- ⑂ 🚧 WIP **feat: Add per event timing** (#3124)
  by @CouthuresJeremy, ✅ comment by @andiwand, updated on 2024-06-11

- ⑂ 🚧 WIP **ci: Update CI job to newer OS (drop ubuntu 20.04, centos7/8)** (#3227)
  by @AJPfleger, ✅ comment by @andiwand, updated on 2024-06-11

- ⑂ 🚧 WIP **feat: Hashing seeding algorithm** (#3148)
  by @CouthuresJeremy, ✅ comment by @CouthuresJeremy, updated on 2024-06-11

- ⑂ 🚧 WIP **feat: geo model detector elements, converters and plugins** (#3213)
  by @asalzburger, ✅ comment by @benjaminhuth, updated on 2024-06-11

- ⑂ 🚧 WIP Stale **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-06-09

acts-project/acts: Open PRs VI

- 🔀 🚧 WIP **refactor!: Template on track container frontend 'TrackContainer'** (#3193)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2024-06-05

- 🔀 🚧 WIP **feat: GSF Debugger** (#2682)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2024-06-04

- 🔀 🚧 WIP **refactor!: Track EDM brush over** (#3192)
  by @andiwand, ✅ comment by @andiwand, updated on 2024-06-03

- 🔀 🚧 WIP **refactor: Remove target volume estimation from 'Navigator'** (#3242)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-06-01

- 🔀 🚧 WIP **feat: Detray plugin** (#3184)
  by @EleniXoch, ✅ comment by @niermann999, updated on 2024-05-31

- 🔀 🚧 WIP **refactor: Remove 'forceIntersectBoundaries' from 'Navigator'** (#3238)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-30

- 🔀 🚧 WIP **feat: Reverse track finding for Examples** (#3200)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-27

acts-project/acts: Open PRs VII

- 🔀 🚧 WIP **feat: Variable size measurement** (#3107)
  by @andiwand, ✅ comment by @andiwand, updated on 2024-05-27

- 🔀 🚧 WIP `Stale` **refactor: add geohook for fast digitization range selection to itk example** (#2089)
  by @niermann999, ⚠️ **no reviewer**, updated on 2024-05-25

- 🔀 🚧 WIP `Stale` **refactor!: Surface returns transform by value** (#2527)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-05-25

- 🔀 🚧 WIP `Stale` **refactor: Physmon in pytest** (#2575)
  by @paulgessinger, ✅ comment by @paulgessinger, updated on 2024-05-25

- 🔀 🚧 WIP **fix: Correct the Sign of Drift Distance** (#2538)
  by @beomki-yeo, ✅ comment by @paulgessinger, updated on 2024-05-25

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

acts-project/acts: Open PRs VIII

- ⑂ 🚧 WIP **feat: Covariance transport for dense propagation** (#2869)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-22

- ⑂ 🚧 WIP **feat!: Space point implementation** (#1900)
  by @CarloVarni, ✅ comment by @paulgessinger, updated on 2024-05-22

- ⑂ 🚧 WIP Stale **feat: Add CMake presets** (#3135)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-22

- ⑂ 🚧 WIP **refactor: Replace 'EigenStepper' extension list with single extension** (#2865)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-14

- ⑂ 🚧 WIP **feat: Propagator Helpers** (#2945)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-14

- ⑂ 🚧 WIP Stale **test: Test field invariance of direction uncertainty transport** (#2983)
  by @andiwand, ⚠️ **no reviewer**, updated on 2024-05-04

- ⑂ 🚧 WIP Stale **chore: Introduce macOS arm64 CI** (#2755)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-04-17

acts-project/acts: Open PRs IX

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

- ⑂ 🚧 WIP Stale **feat: Structured logging** (#2684)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2023-12-21

- ⑂ 🚧 WIP Stale **feat: Random transformations of aligned sensors** (#2519)
  by @LaraCalic, ✅ comment by @paulgessinger, updated on 2023-12-08

- ⑂ 🚧 WIP Stale **feat: Adding grouping mechanism and delta calculations** (#2520)
  by @LaraCalic, ✅ comment by @paulgessinger, updated on 2023-12-08

- ⊙ **bug: navigation suggests 'pathCorrection=inf' on cylinderSurface** (#3267)
  by @AJPfleger, updated on 2024-06-07

- 🔀 `🚧 WIP` `Stale` **refactor: Bump min json ver, make json keys static** (#2968)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-06-09

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- ▶ 👷 `WIP` `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

- ▶ 👷 `WIP` `Stale` **refactor: add geohook for fast digitization range selection to itk example** (#2089)
  by @niermann999, ⚠️ **no reviewer**, updated on 2024-05-25

- ▶ 👷 `WIP` `Stale` **refactor!: Surface returns transform by value** (#2527)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2024-05-25

- ▶ 👷 `WIP` `Stale` **refactor: Physmon in pytest** (#2575)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2024-05-25

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

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- ▶ ⊙ `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

- ▶ ⑂ `🚧 WIP` `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

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- ⑂ `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

- ⊙ `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

- ⑂ 🚧 WIP `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

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- ▶ ⟨ᚠ⟩ 🚧 WIP 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

- ▶ ⟨ᚠ⟩ 🚧 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

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- ▶ ⊙ 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 **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

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- ▶ ⊙ `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

- ▶ ⤳ `WIP` `Stale` **feat: Random transformations of aligned sensors** (#2519)
  by @LaraCalic, ⚠ **no reviewer**, updated on 2023-12-08

- ▶ ⤳ `WIP` `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

- ▶ ⊙ 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

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- ▶ ⊙ 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

- ▶ ⊙ 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` **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

- ▶ ⊙ `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

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- ▶ ⊙ 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

- ▶ ⊙ 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

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- ▶ ⊙ 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

- ▶ ⊙ 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