Pull request and issue summary for acts-project/acts

October 31, 2023

acts-project/acts: PRs merged between 2023-10-24 and 2023-10-31 I

- ▶ 🖧 **feat: Add measurement map selector with geometry selection** (#2572)
  by @benjaminhuth, ✅ reviewed by @andiwand, merged on 2023-10-24

- ▶ 🖧 **feat: Allow particle selection with measurment count** (#2570)
  by @benjaminhuth, ✅ reviewed by @andiwand, merged on 2023-10-24

- ▶ 🖧 **refactor: Rework physmon track fitting** (#2549)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2023-10-24

- ▶ 🖧 **refactor: improve and clean-up GX2F unitTest** (#2573)
  by @AJPfleger, ✅ reviewed by @paulgessinger, merged on 2023-10-24

- ▶ 🖧 **feat: Wire tolerance to bound parameter factory** (#2563)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2023-10-25

- ▶ 🖧 **refactor: Make Fatras 'Particle' and simulation surface aware** (#2546)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2023-10-25

- ▶ 🖧 **fix: Fix boundaries navigation** (#2534)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2023-10-25

- ▶ 🖧 **feat: Add (optional) Jacobian reversal to Track** (#2571)
  by @paulgessinger, ✅ reviewed by @felix-russo, merged on 2023-10-25

acts-project/acts: PRs merged between 2023-10-24 and 2023-10-31 II

- ▶ **feat: use blueprint to generate cylindrical detector** (#2557)
  by @asalzburger, ✅ reviewed by @niermann999, merged on 2023-10-25

- ▶ **feat: add boolean useTime to AMVFitter** (#2521)
  by @felix-russo, ✅ reviewed by @paulgessinger, merged on 2023-10-25

- ▶ **refactor: comment and unify the creation and filling of trackStateProxy (KF)** (#2499)
  by @AJPfleger, ✅ reviewed by @andiwand, merged on 2023-10-25

- ▶ **refactor!: remove division of vertex covariance with weight** (#2551)
  by @felix-russo, ✅ reviewed by @paulgessinger, merged on 2023-10-25

- ▶ **fix: enforce calculation of impact parameters wrt vertex position** (#2524)
  by @felix-russo, ✅ reviewed by @paulgessinger, merged on 2023-10-26

- ▶ **ci: Remove 'docker' tag, restrict ExaTrkX build to big VMs** (#2579)
  by @paulgessinger, ✅ reviewed by @benjaminhuth, merged on 2023-10-26

- ▶ **refactor: Replace magic seeding field in Examples** (#2577)
  by @andiwand, ✅ reviewed by @AJPfleger, merged on 2023-10-26

- ▶ **fix: GeoVisualization - Fix compiler warning that's appearing in Athena** (#2585)
  by @junggjo9, ✅ reviewed by @paulgessinger, merged on 2023-10-26

- ▶ **fix: Use track selection in GSF physmon** (#2578)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2023-10-27

- ▶ **fix: Fix Fatras end of world** (#2580)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2023-10-27

- ▶ **refactor: Improve CKF error message if target surface is not reached** (#2587)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2023-10-27

- ▶ **refactor: Refactor FPE masks in Examples** (#2581)
  by @andiwand, ✅ reviewed by @paulgessinger, merged on 2023-10-28

- ▶ **refactor: Refactor Examples to use tracks instead of trajectories** (#2560)
  by @andiwand, ✅ reviewed by @benjaminhuth, merged on 2023-10-28

- ▶ **fix: CKF does an extra copy on the fitted state** (#2568)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2023-10-28

- ▶ **chore: Support macOS in setup script (ODD)** (#2594)
  by @paulgessinger, ✅ reviewed by @AJPfleger, merged on 2023-10-30

- ▶ **feat: cylindrical detector from DD4hep** (#2582)
  by @asalzburger, ✅ reviewed by @paulgessinger, merged on 2023-10-30

- ⎇ **fix: Protection against nullptr in material interactor of KF** (#2597)
  by @CarloVarni, ✅ reviewed by @andiwand, merged on 2023-10-30
- ⎇ **ci: Add clang-tidy check for &&, || and ! instead of and, or and not** (#2569)
  by @paulgessinger, ✅ reviewed by @andiwand, merged on 2023-10-31

acts-project/acts: Open PRs I

- ▶ 🔀 **fix: 'safeInverse(m)' for matrices larger than 4x4** (#2602)
  by @AJPfleger, ✅ comment by @AJPfleger, updated on 2023-10-31

- ▶ 🔀 **refactor: use time info in Kalman vertex fit** (#2544)
  by @felix-russo, ✅ comment by @felix-russo, updated on 2023-10-31

- ▶ 🔀 **refactor: Release step constraint after stepper in propagation** (#2596)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-31

- ▶ 🔀 **fix: Set Current Surface as first surface for direct navigator** (#2600)
  by @CarloVarni, ✅ reviewed by @andiwand, updated on 2023-10-31

- ▶ 🔀 **refactor: Intersection index for stepper surface update** (#2599)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-31

- ▶ 🔀 **refactor: Remove target estimation from navigator** (#2598)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-31

- ▶ 🔀 **feat: experiment cuts to dublets in seed finder** (#2326)
  by @LuisFelipeCoelho, ✅ comment by @CarloVarni, updated on 2023-10-30

- ▶ 🔀 **feat: ML seed selection** (#2576)
  by @Corentin-Allaire, ✅ comment by @Corentin-Allaire, updated on 2023-10-30

acts-project/acts: Open PRs II

- ⑂ **feat: Add DD4hep field adapter** (#2593)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2023-10-29

- ⑂ Stale **feat: allow rectangular shaped support surfaces** (#2310)
  by @asalzburger, ✅ comment by @asalzburger, updated on 2023-10-29

- ⑂ **feat: GX2F: use magnetic field to fit q/p** (#2574)
  by @AJPfleger, ✅ comment by @andiwand, updated on 2023-10-29

- ⑂ **refactor!: Make 'BoundaryCheck' constructor from 'bool' explicit** (#2592)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-28

- ⑂ **feat: Add possibility to rotate the trapezoid bounds** (#2583)
  by @junggjo9, ⚠️ **no reviewer**, updated on 2023-10-28

- ⑂ **refactor!: Unify floating point type for chi2 in Track(State)** (#2562)
  by @paulgessinger, ❌ changes requested by @andiwand, updated on 2023-10-27

- ⑂ **refactor: GX2F: add additional parameters to python bindings** (#2584)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2023-10-27

- ⑂ **refactor!: Fitted params to fitted momenta** (#2402)
  by @felix-russo, ⚠️ **no reviewer**, updated on 2023-10-25

acts-project/acts: Open PRs III

- 🔀 **refactor!: Introduce regular surface intermediate class** (#2340)
  by @paulgessinger, ✅ reviewed by @andiwand, updated on 2023-10-25

- 🔀 **refactor: unit test amvfitter** (#2530)
  by @felix-russo, ⚠️ **no reviewer**, updated on 2023-10-24

- 🔀 **refactor!: move AMVF and IVF config explicitely** (#2509)
  by @felix-russo, ⚠️ **no reviewer**, updated on 2023-10-23

- 🔀 **feat!: volume agnostic material mapping** (#2473)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2023-10-03

- 🔀 **refactor: change the definition of the rotation parameters** (#2021)
  by @XiaocongAi, ✅ comment by @paulgessinger, updated on 2023-08-03

- 🔀 🚧 WIP **docs: Add collector for whitepapers** (#2591)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2023-10-31

- 🔀 🚧 WIP **feat: Add high-stats fuzzy random navigation test** (#2601)
  by @paulgessinger, ⚠️ **no reviewer**, updated on 2023-10-31

acts-project/acts: Open PRs IV

- ⟟ 🚧 WIP **refactor: Remove path limit from navigation** (#2595)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-31

- ⟟ 🚧 WIP Stale **feat: cubic Detector infrastructure** (#2308)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2023-10-29

- ⟟ 🚧 WIP Stale **feat: update ODD version** (#2399)
  by @asalzburger, review requested, updated on 2023-10-29

- ⟟ 🚧 WIP **try: CKF with fuzzy navigation** (#2588)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-28

- ⟟ 🚧 WIP **fix: Correct the Sign of Drift Distance** (#2538)
  by @beomki-yeo, ✅ comment by @paulgessinger, updated on 2023-10-27

- ⟟ 🚧 WIP **feat: GX2F: abort condition 'relChi2changeCutOff'** (#2586)
  by @AJPfleger, ⚠️ **no reviewer**, updated on 2023-10-26

- ⟟ 🚧 WIP **feat: Random transformations of aligned sensors** (#2519)
  by @LaraCalic, ✅ comment by @paulgessinger, updated on 2023-10-26

acts-project/acts: Open PRs V

- 🔀 🚧 WIP **refactor: Move actor state into propagator state** (#2552)
  by @andiwand, ✅ comment by @paulgessinger, updated on 2023-10-26

- 🔀 🚧 WIP **refactor: employ useConstraintInFit from VertexingOptions in AMVFitter** (#2529)
  by @felix-russo, ❌ changes requested by @andiwand, updated on 2023-10-25

- 🔀 🚧 WIP **refactor: Physmon in pytest** (#2575)
  by @paulgessinger, ✅ comment by @paulgessinger, updated on 2023-10-24

- 🔀 🚧 WIP **feat: Proposal for required config parameters in Examples** (#2559)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-10-24

- 🔀 🚧 WIP **fix: Initial track param covariance inflation** (#2295)
  by @andiwand, ✅ comment by @andiwand, updated on 2023-10-24

- 🔀 🚧 WIP **feat: GSF mixture mode** (#2564)
  by @benjaminhuth, ⚠️ **no reviewer**, updated on 2023-10-24

- 🔀 🚧 WIP **refactor: Use step length in 'VolumeMaterialInteraction'** (#2278)
  by @andiwand, ✅ comment by @andiwand, updated on 2023-10-22

acts-project/acts: Open PRs VI

- ⤳ 🚧 WIP **feat: Adding grouping mechanism and delta calculations** (#2520)
  by @LaraCalic, ✅ comment by @paulgessinger, updated on 2023-10-13

- ⤳ 🚧 WIP **refactor!: Surface returns transform by value** (#2527)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2023-10-11

- ⤳ 🚧 WIP **ci: Physmon for single particles** (#2159)
  by @andiwand, ⚠️ **no reviewer**, updated on 2023-09-29

- ⤳ 🚧 WIP **feat: first test of cylindrical grid geometry** (#2176)
  by @asalzburger, ✅ comment by @niermann999, updated on 2023-09-29

- ⤳ 🚧 WIP Stale **refactor: add geohook for fast digitization range selection to itk example** (#2089)
  by @niermann999, ⚠️ **no reviewer**, updated on 2023-09-29

- ⤳ 🚧 WIP **feat!: Space point implementation** (#1900)
  by @CarloVarni, ✅ comment by @paulgessinger, updated on 2023-09-29

- ⤳ 🚧 WIP **feat!: new cubic volume building** (#1821)
  by @asalzburger, ⚠️ **no reviewer**, updated on 2023-09-18

► ⊙ **FPE: AMVF keepNewVertex** (#2590)
by @andiwand, updated on 2023-10-27

- ⤳ `🚧 WIP` `Stale` **feat: update ODD version** (#2399)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

- ⤳ `Stale` **feat: allow rectangular shaped support surfaces** (#2310)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

- ⤳ `🚧 WIP` `Stale` **feat: cubic Detector infrastructure** (#2308)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

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- ▶ ⑂ `🚧 WIP` `Stale` **feat: cubic Detector infrastructure** (#2308)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

- ▶ ⑂ `Stale` **feat: allow rectangular shaped support surfaces** (#2310)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

- ▶ ⑂ `🚧 WIP` `Stale` **feat: update ODD version** (#2399)
  by @asalzburger, ⚠ **no reviewer**, updated on 2023-10-29

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

- ▶ ⊙ `Stale` **Bug: Negative variances from AMVF** (#2231)
  by @felix-russo, updated on 2023-09-29

- ▶ ⑂ `🚧 WIP` `Stale` **refactor: add geohook for fast digitization range selection to itk example**
  (#2089)
  by @niermann999, ⚠ **no reviewer**, updated on 2023-09-29

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

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- ▶ ⊙ Stale **error while i running full_chain_odd.py** (#1661)
  by @rubihason, updated on 2023-09-23

- ▶ ⊙ Stale **LCG compatibility** (#2054)
  by @paulgessinger, updated on 2023-09-22

- ▶ ⊙ Stale **Bug: AMVF 'deleteLastVertex' might be wrong** (#2380)
  by @andiwand, updated on 2023-09-16

- ▶ ⊙ Stale **Bug: not all tracks have fittedMomentum** (#2364)
  by @felix-russo, updated on 2023-09-13

- ▶ ⊙ 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 **Missing 'cmake_minimum_required' in 'ActsConfig.cmake.in'** (#2216)
  by @andiwand, updated on 2023-09-01

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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 **Bug: Covariance matrix needs to be blown up in ODD example** (#2074)
  by @pbutti, updated on 2023-07-23

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

- ▶ ⊙ Stale **Construct tracking geometry from python** (#2173)
  by @andiwand, updated on 2023-07-20

- ▶ ⊙ Stale **EstimateTrackParamsFromSeed does not use time of measurement** (#2136)
  by @andiwand, updated on 2023-07-17

- ▶ ⊙ Stale **TrackAtVertex trackWeight is not being written in IVF** (#2149)
  by @andiwand, updated on 2023-06-23

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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 **Proposal: MultiWire SurfaceCandidateUpdator** (#2063)
  by @asalzburger, updated on 2023-06-21

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

- ▶ ⊙ Stale **Feature: Measurement removal to get unbiased residual during smoothing** (#2031)
  by @XiaocongAi, updated on 2023-05-20

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

- ▶ ⊙ Stale **Improvements to Track EDM** (#1993)
  by @paulgessinger, 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

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- ▶ ⊙ Stale **Cmake error if ACTS_BUILD_PLUGIN_ACTSVG=ON** (#1818)
  by @DraTeots, 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 **Drop 'boost progress' from examples where it is not used** (#1736)
  by @tboldagh, updated on 2023-01-16

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- ▶ ⊙ Stale **Remove 'volumeSignature' from geometry building** (#1731)
  by @paulgessinger, updated on 2023-01-16

- ▶ ⊙ 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 **Create volume restricted BFieldMap** (#1659)
  by @asalzburger, updated on 2022-12-21

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

- ▶ ⊙ 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 **Documentation update: FATRAS** (#1419)
  by @paulgessinger, updated on 2022-10-22

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

- ▶ ⊙ Stale **Add Primary Vertex Label to tracks** (#1544)
  by @Lucas-Borgna, updated on 2022-10-22

- ▶ ⊙ Stale **Documentation update: Contribution guidelines** (#1423)
  by @paulgessinger, updated on 2022-10-19

- ▶ ⊙ 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 **Documentation: hints for debugging** (#1463)
  by @timadye, updated on 2022-09-24

- ▶ ⊙ 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` **Vertexing produces propagation errors** (#1345)
  by @paulgessinger, updated on 2022-09-20

- ▶ ⊙ `Stale` **add monitoring for vertexing in physmon** (#1313)
  by @andiwand, updated on 2022-09-20

- ▶ ⊙ `Stale` **2D r-z Magnetic Field Map Improperly Read** (#669)
  by @osbornjd, 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

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- ▶ ⊙ Stale **Reproducibility test using hash checks for non-linear KF** (#1246)
  by @paulgessinger, updated on 2022-06-12

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

- ▶ ⊙ Stale **Bug: fatras different particle final states between python and executable** (#1221)
  by @CouthuresJeremy, updated on 2022-05-01

- ▶ ⊙ Stale **ci: Coverage job is broken with gcovr $>=$ 5.1** (#1211)
  by @paulgessinger, updated on 2022-04-29

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

- ▶ ⊙ Stale **Feat: Radial bounds in DD4hep plugin** (#822)
  by @whit2333, updated on 2022-02-19

- ▶ ⊙ 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

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- ▶ ⊙ `Stale` **[bug] Off axis endcap with dd4hep plugin.** (#942)
  by @whit2333, updated on 2021-11-25

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

- ▶ ⊙ `Stale` **Polyhedron surfaces tests are disabled** (#454)
  by @msmk0, updated on 2021-11-04

- ▶ ⊙ `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

- ▶ ⊙ `Stale` **Debug Information in Acts Seeder** (#944)
  by @osbornjd, updated on 2021-10-21

- ▶ ⊙ `Stale` **fix: avoid double-static cast** (#647)
  by @asalzburger, updated on 2021-10-21