





















acts-project/traccc: PRs merged between 2023-01-27 and 2023-02-10 |

- ▶  **Implement cell partitioning in CUDA** (PR#309)
by @stephenswat, no assignee, merged on 2023-01-30
- ▶  **Alpaka first steps** (PR#300)
by @StewMH, no assignee, merged on 2023-01-30
- ▶  **Fix unused parameter in CCA code** (PR#310)
by @stephenswat, no assignee, merged on 2023-01-31
- ▶  **Add formatting requirement for code in 'plugins/'** (PR#311)
by @stephenswat, no assignee, merged on 2023-01-31
- ▶  **Implementation of Nvidia NVTX functions into timer class to use for performance studies** (PR#312)
by @Xola101, no assignee, merged on 2023-02-03
- ▶  **Fixed multithreaded application to run different events** (PR#315)
by @guilhermeAlmeida1, no assignee, merged on 2023-02-07
- ▶  **Fixed partition merging in Cuda CCA** (PR#313)
by @guilhermeAlmeida1, no assignee, merged on 2023-02-07










acts-project/traccc: Open PRs |

- ▶  **Add Particle Generation Options** (PR#314)
by @beomki-yeo, **no assignee**, updated on 2023-02-09
- ▶  **Changed device clusterization to flat EDM** (PR#299)
by @guilhermeAlmeida1, **no assignee**, updated on 2023-02-06
- ▶  **GPU Track Fitting** (PR#296)
by @beomki-yeo, **no assignee**, updated on 2023-02-06
- ▶  **ci: Add basic GPU CI** (PR#237)
by @paulgessinger, **no assignee**, updated on 2023-01-25
- ▶  **MPS benchmarking scripts and test workflow** (PR#244)
by @Chamodya-ka, **no assignee**, updated on 2023-01-25
- ▶  **Changed doublets & triplets data structure to spM based jagged vectors** (PR#252)
by @guilhermeAlmeida1, **no assignee**, updated on 2023-01-25
- ▶  **added mps script tests** (PR#255)
by @Chamodya-ka, **no assignee**, updated on 2023-01-25
- ▶  **Changed CPU clustering to use flat vectors of alt_cells as input and alt_measurements internally.** (PR#304)
by @guilhermeAlmeida1, **no assignee**, updated on 2023-01-25










acts-project/traccc: Open PRs II

- ▶  **Add infrastructure for CUDA graph algorithms** (PR#307)
by @stephenswat, **no assignee**, updated on 2023-01-25
- ▶  **Alternative CUDA implementation of seed finding** (PR#230)
by @stephenswat, **no assignee**, updated on 2023-01-11
- ▶  **Improve memory performance of CUDA CCA code** (PR#235)
by @stephenswat, **no assignee**, updated on 2023-01-11
- ▶  **Implement and test a CUDA version of the module map** (PR#154)
by @stephenswat, **no assignee**, updated on 2022-04-13
- ▶  **Implement CUDA spacepoint formation with flat EDM** (PR#158)
by @stephenswat, **no assignee**, updated on 2022-04-01



acts-project/detray: PRs merged between 2023-01-27 and 2023-02-10 |


- ▶  **Add detector view type in detector class (PR#378)**
by @beomki-yeo, no assignee, merged on 2023-01-30
- ▶  **Update to project version to 19 (PR#380)**
by @beomki-yeo, no assignee, merged on 2023-01-31
- ▶  **Update algebra-plugins to version 0.17.0 (PR#382)**
by @niermann999, no assignee, merged on 2023-02-01
- ▶  **fix: add const specialization for is_device_view trait (PR#381)**
by @niermann999, no assignee, merged on 2023-02-01
- ▶  **Add angle units (PR#384)**
by @beomki-yeo, no assignee, merged on 2023-02-02
- ▶  **Add 'utils' directory into 'check_format.sh' (PR#385)**
by @beomki-yeo, no assignee, merged on 2023-02-03
- ▶  **Change random track generator member variable to a pointer (PR#386)**
by @beomki-yeo, no assignee, merged on 2023-02-06
- ▶  **chore: add mathematical constants and clean up some float conversions (PR#372)**
by @niermann999, no assignee, merged on 2023-02-09
- ▶  **Add 'propagate_sync' function for thread synchronization (PR#387)**
by @beomki-yeo, no assignee, merged on 2023-02-09

acts-project/detray: Open PRs |






- ▶  **Add momentum range and vertex smearing to 'random_track_generator'** (PR#388)
by @beomki-yeo, **no assignee**, updated on 2023-02-10
- ▶  **ref: pathcorrection unittest uses target_aborter** (PR#383)
by @niermann999, **no assignee**, updated on 2023-02-09
- ▶  **feat: cylinder portal intersector** (PR#370)
by @niermann999, **no assignee**, updated on 2023-01-27
- ▶  **ref: move surface vector into sf finder store** (PR#367)
by @niermann999, **no assignee**, updated on 2023-01-23
- ▶  **feat: material builders** (PR#364)
by @niermann999, **no assignee**, updated on 2023-01-17
- ▶  **feat: surface barcode** (PR#368)
by @niermann999, **no assignee**, updated on 2023-01-12
- ▶  **ref: Add new stepper policy and benchmark it** (PR#327)
by @niermann999, **no assignee**, updated on 2022-11-10
- ▶  **Volume radiation length** (PR#328)
by @beomki-yeo, **no assignee**, updated on 2022-10-26
- ▶  **add vecpar example** (PR#235)
by @georgi-mania, **no assignee**, updated on 2022-07-13


acts-project/vecmem: PRs merged between 2023-01-27 and 2023-02-10 |

- ▶  **Warning Fixes, main branch (2023.02.02.)** (PR#217)
by @krasznaa, no assignee, merged on 2023-02-02
- ▶  **Atomic Test Improvements, main branch (2023.02.02.)** (PR#216)
by @krasznaa, no assignee, merged on 2023-02-03

- ▶  **[WIP] Add cms caching cuda allocator (PR#79)**
by @cgleggett, **no assignee**, updated on 2021-04-28

acts-project/algebra-plugins: PRs merged between 2023-01-27 and 2023-02-10 |

- ▶  **fix: assert in cmath vector getter (PR#88)**
by @niermann999, no assignee, merged on 2023-01-27
- ▶  **fix: implicit conversions (PR#87)**
by @niermann999, no assignee, merged on 2023-01-30
- ▶  **Eigen SYCL Tests, main branch (2023.02.03.) (PR#90)**
by @krasznaa, no assignee, merged on 2023-02-03
- ▶  **VecMem Update, main branch (2023.02.03.) (PR#91)**
by @krasznaa, no assignee, merged on 2023-02-03
- ▶  **GitHub SYCL Highlighting, main branch (2023.02.03.) (PR#92)**
by @krasznaa, no assignee, merged on 2023-02-03

- ▶  **Added Fastor as a full backend and frontend.** (PR#78)
by @wermos, **no assignee**, updated on 2022-11-21

No merged PRs since **2023-01-27** in
acts-project/covfie