

# Introduction

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CERN

04.06.2021 - ACTS Parallelization Meeting



**Merged Pull Requests since 2021-05-07**

## acts-project/traccc: PRs merged since 2021-05-07 |

- **#37 - Declare algebra header functions to be inline**  
by [@stephenswat](#), merged on 2021-05-11
- **#24 - Add a simple clusterization example program**  
by [@stephenswat](#), merged on 2021-06-04
- **#38 - Rework the vector and matrix types used for algebra**  
by [@stephenswat](#), merged on 2021-06-04

## acts-project/vecmem: PRs merged since 2021-05-07 |

- #83 - **Implement a static array type**  
by [@stephenswat](#), merged on 2021-05-14
- #84 - **CUDA 10.1 Compatibility Fix, main branch (2021.05.18.)**  
by [@krasznaa](#), merged on 2021-05-18

## acts-project/detray: PRs merged since 2021-05-07 |

- **#51 - feat: teaching the volumes to know another**  
by @asalzburger, merged on 2021-05-11
- **#52 - feat: add volume search benchmark**  
by @asalzburger, merged on 2021-05-15
- **#53 - feat: change to proto detector**  
by @asalzburger, merged on 2021-05-18
- **#54 - removing old detector infrastructure**  
by @asalzburger, merged on 2021-05-18
- **#55 - chore: harmonize surface / portal / container names**  
by @asalzburger, merged on 2021-05-18
- **#56 - chore: de-template intersection, track**  
by @asalzburger, merged on 2021-05-19
- **#57 - feat: harmonize surfaces and portals**  
by @asalzburger, merged on 2021-05-20

## acts-project/detray: PRs merged since 2021-05-07 II

- **#58 - feat: further progress in navigator behavior**  
by @asalzburger, merged on 2021-05-21
- **#59 - feat: reduce boundary complexity**  
by @asalzburger, merged on 2021-05-27
- **#60 - feat: first sort of navigator**  
by @asalzburger, merged on 2021-05-27
- **#61 - feat: adding simple line\_stepper**  
by @asalzburger, merged on 2021-05-28
- **#62 - feat: introduce propagator**  
by @asalzburger, merged on 2021-05-31
- **#64 - Refactor extern la plugin**  
by @niermann999, merged on 2021-06-04

# Open Pull Requests

# acts-project/traccc: Open PRs I

- **#40 - CPU parallel example**  
by [@georgi-mania](#), updated on 2021-05-25
- **#35 - Port ACTS binning algorithm for CPU**  
by [@beomki-yeo](#), updated on 2021-05-25
- **#41 - add hit reader for ACTS fatras simulation**  
by [@beomki-yeo](#), updated on 2021-05-24
- **#36 - Implement a common set of algorithm semantics**  
by [@stephenswat](#), updated on 2021-05-12
- **#39 - Add clang-format script and CI job**  
by [@paulgessinger](#), updated on 2021-05-12
- **#19 - WIP: Another CUDA implementation of connected component labeling**  
by [@stephenswat](#), updated on 2021-05-11
- **#33 - Implement container element views**  
by [@stephenswat](#), updated on 2021-05-06



## acts-project/vecmem: Open PRs I

- [#82](#) - **Add clang-format script and CI job**  
by [@paulgessinger](#), updated on 2021-05-14
- [#79](#) - **[WIP] Add cms caching cuda allocator**  
by [@cleggett](#), updated on 2021-04-28

# acts-project/detray: Open PRs I

- **#65 - Feat integrate simd algebra**  
by [@niermann999](#), updated on 2021-06-04
- **#63 - feat: add propagate-all**  
by [@asalzburger](#), updated on 2021-06-01

# Contributions today I

- **Concurrent algorithms in tracc**  
by Georgiana Mania
- **tracc Seed Finding update**  
by Beom Ki Yeo