

# ATLAS Tracer

Development Status 22-02-2017

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## STATUS (22-02-2017):

- We are still in development folder
- Current version of folder is 1.8
- We have updated *tmp* folder with latest 1.8 folder. So it is reachable by <http://cadcamge.ch/at/tmp/#>
- Now we have Pixel, SCT and TRT. Lar Barrel will come soon
- We did decomposition of each assembly and separate parts with colours. Now geometries are much more representative
- Tracer uses imported from engineering DB and Geant-4 geometries. So this is most hard part of development
- Engine is functioning fine. We have some minor bugs. But they will not cause delays of 1<sup>st</sup> release announcement

# STATUS (22-02-2017):

- System performance is not bad 😊
- We have added Filters for Tracks and Jets
- Also Missing ET is now visible
- Main item to be done before finishing 1<sup>st</sup> release is TRT geometry
- In 1<sup>st</sup> release of ATLAS Tracer we will have just 4 geometries: PIXEL, SCT, TRT and Lar Barrel
- Rest of detector geometries will be added step-by-step in next releases
- Application is heavy but not too much. It takes ~2.8Gb of RAM
- In next releases optimization of geometries expected to become task with main importance. We are ready for this battle having own methodologies and tools for simplification

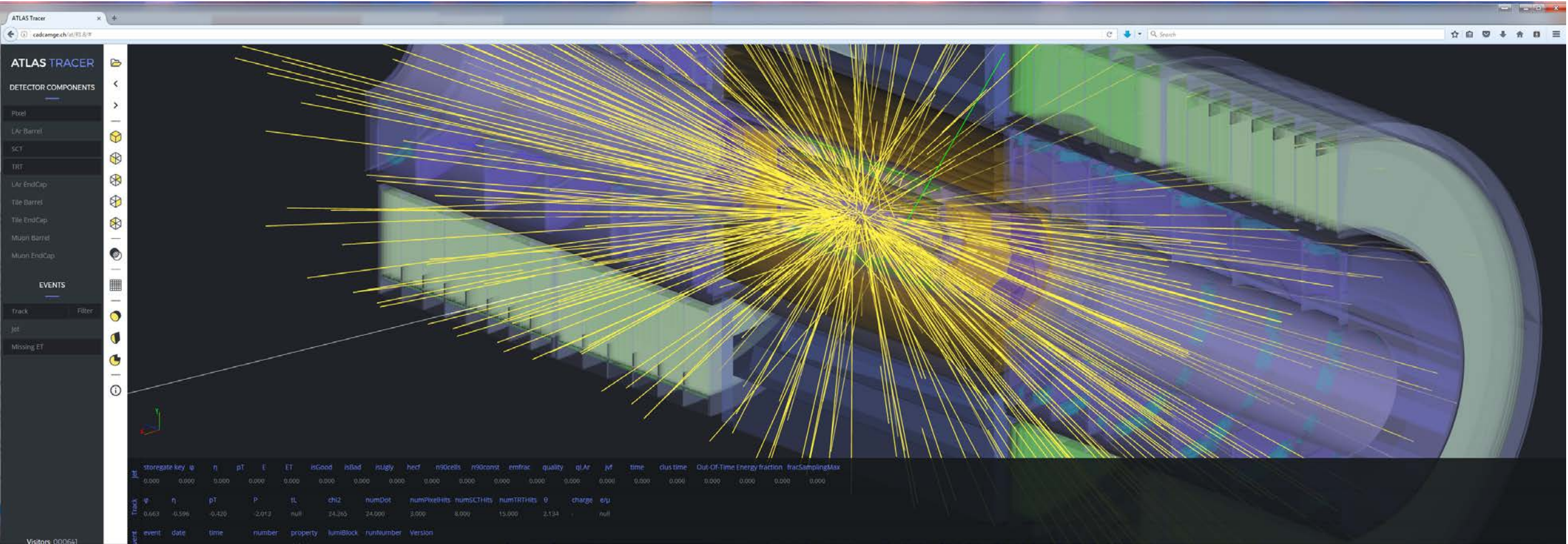
## Good News:

- Following to discussions at San Diego HEP Software Foundation Workshop ATLAS Tracer hit in interest of event display experts from ATLAS, CMS, ALICE and LHC
- Despite of fact that Tracer is still in development folder there is a positive reference on system in latest paper done by ATLAS event visualisation experts <https://cds.cern.ch/record/2243749/>
- This is good clarification for us that we are on right way!

## Next Steps before Announcement:

- Adding of Lar Barrel geometry
- Dressing up framework
- Fixing minor bugs
- Sending system draft to Tester's
- Doing final corrections
- Announcement on 2<sup>nd</sup> week of March

# Some current screenshots of system



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