

Comparison of curvatures of tracks

Tracer to Atlantis

Lasha Pataridze

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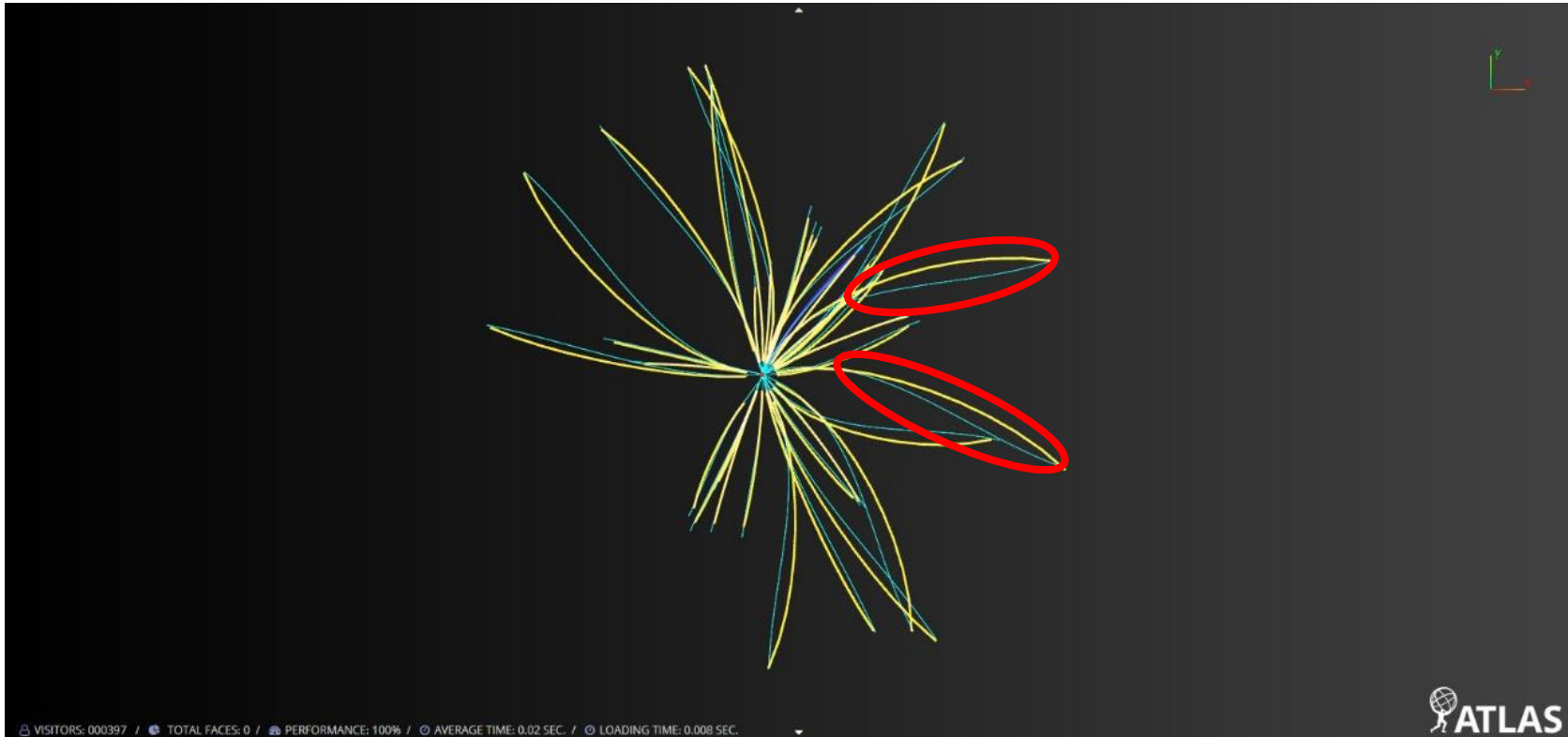
- Influence of Inner Detector magnetic field on tracks is applied on tracks in Tracer
- Curvature of tracks in Tracer has been compared to Atlantis

Current developer version of ATLAS Tracer

<http://cadcamge.ch/at/R2.0/>

ID: E4, runNumber: 100000, eventNumber: 127

Front view



Tracer applies only one magnetic field (Solenoid) influence on tracks
Atlantis uses two magnetic fields (Solenoid and Toroid)

Track color

Tracer

Atlantis

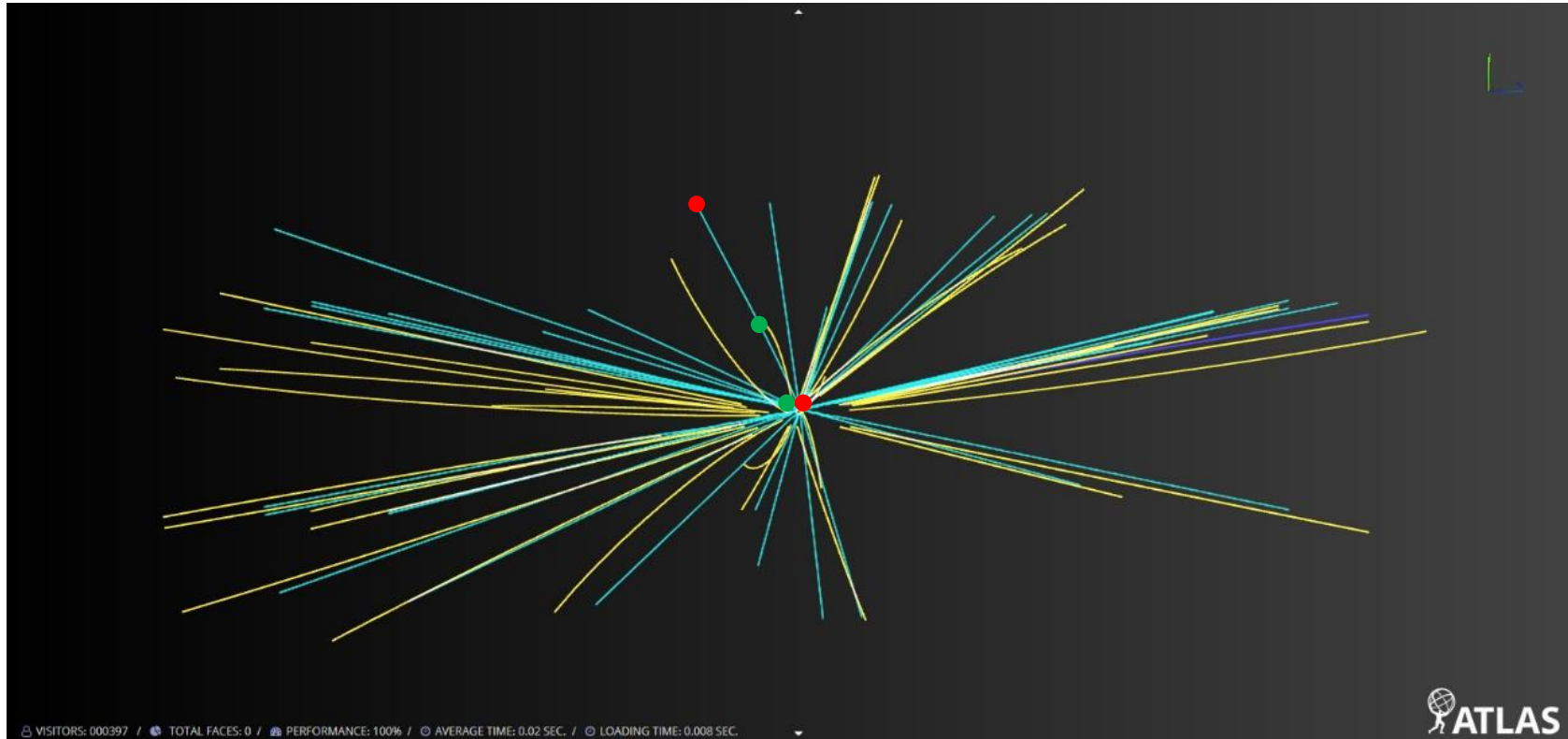


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ID: E4, runNumber: 100000, eventNumber: 127

Side view



starting and ending points (green circles) of tracks in Tracer are coordinates taken from XML file



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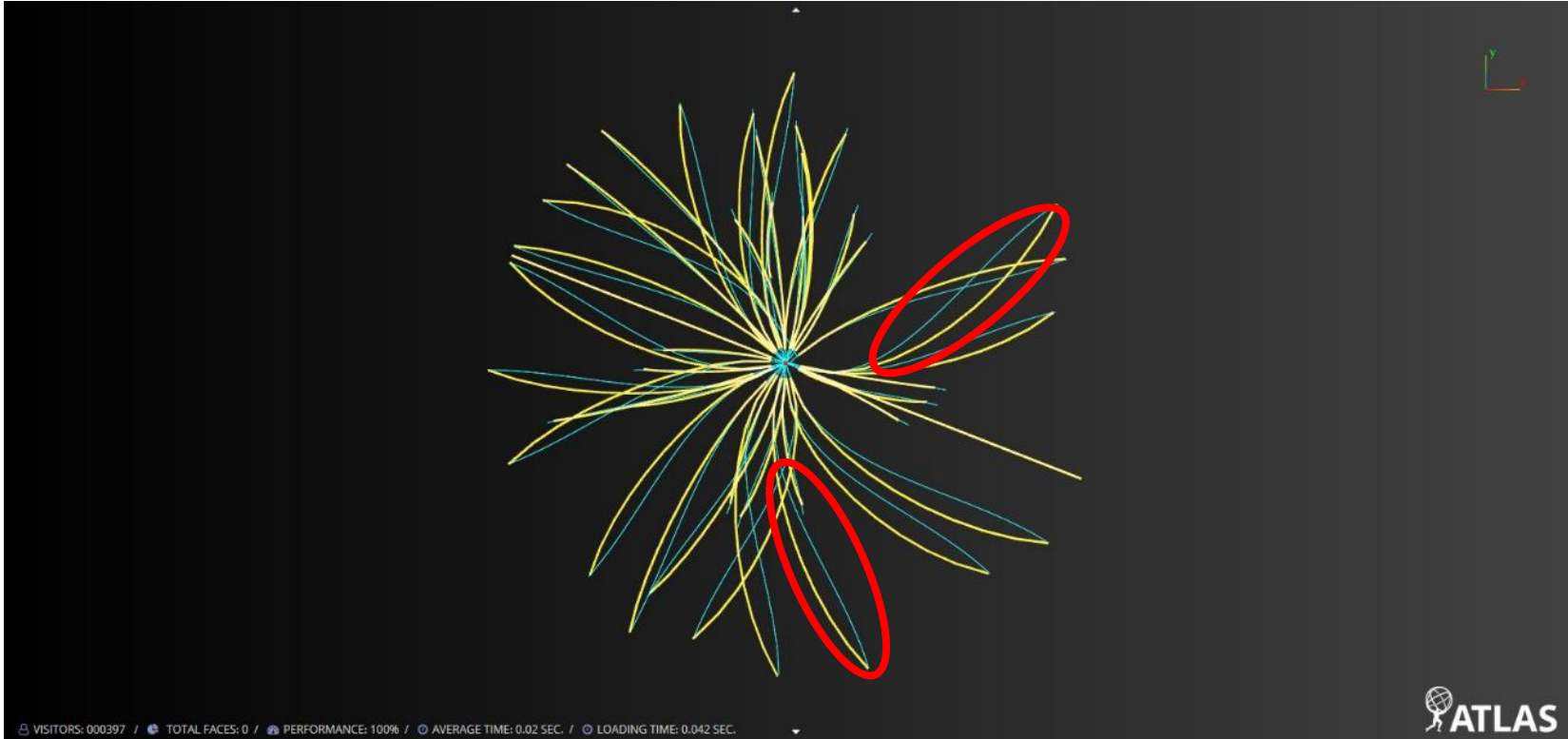
Track color

Tracer

Atlantis

ID: C39, runNumber: 100001, eventNumber: 121

Front view



Track color

Tracer

Atlantis

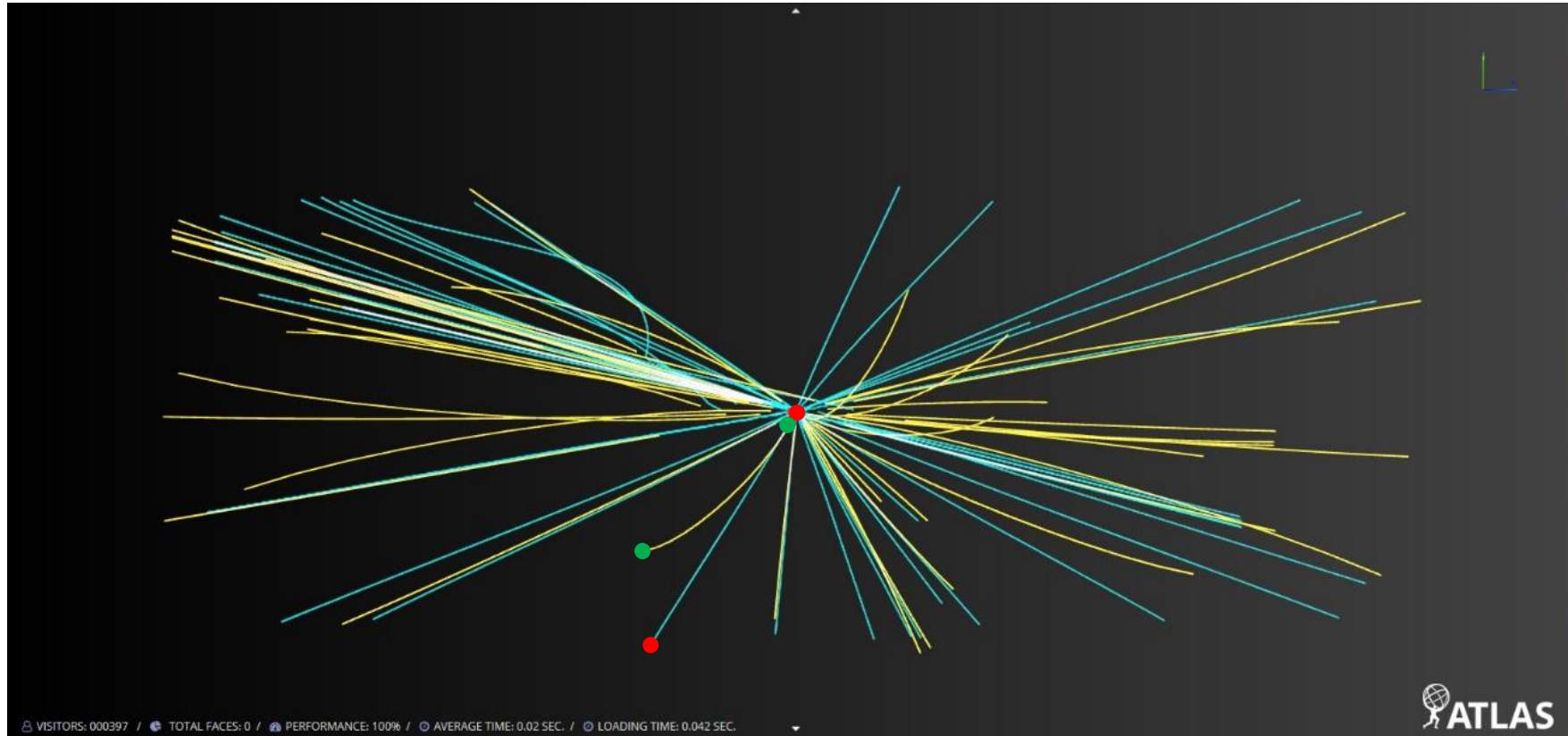


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ID: C39, runNumber: 100001, eventNumber: 121

Side view



Track color

Tracer

Atlantis



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Current development

- Searching parameters which will help to implement influence of magnetic field of toroidal magnets on tracks in Tracer
- Create a methods to do so

