

Theia Status Update and Tutorial

Optics Group, Virgo

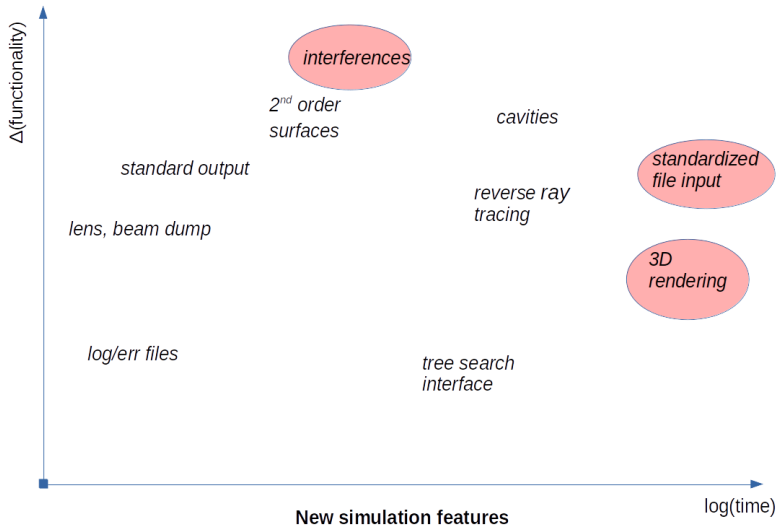
Wednesday, June 28th 2017

theia:

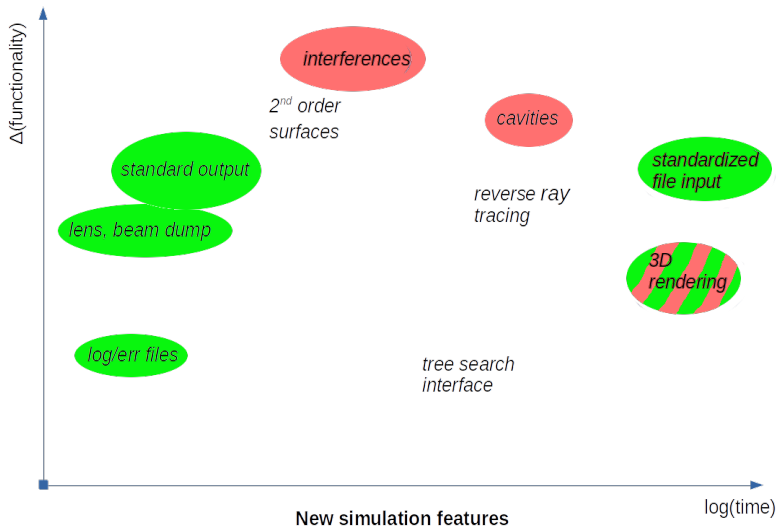
- General astigmatic beam tracer in 3D
- With support for many optical components (mirrors, thin lenses, thick lenses, beamdumps)
- And many Gaussian functions
- Reading and writing standard input (.tia) and output (.out) text files
- And with 3D visualization capabilities by exporting to CAD software
- Geometric optics: no approximation
- Soon: cavities, interferences

- June 9th: theia 0.1.0
- Idea: Virgo Hub on `hub.virgo-gw.eu` for home-made software (theia, BruCo, etc.) ? → Question pending...
- In the mean time: sources, documentation, news on `http://theia.hopto.org:56000`
- And: Internship presentation (July 7th), Virgo Week (~July 15th)

Before (May 10th) ...



... After (June 28th)



`http://theia.hopto.org:56000`

Tutorial: CLI tool

- theia CLI tool
- theia as a library

Tutorial: Library tool

