

# VISUALIZING EVENTS AND DETECTORS

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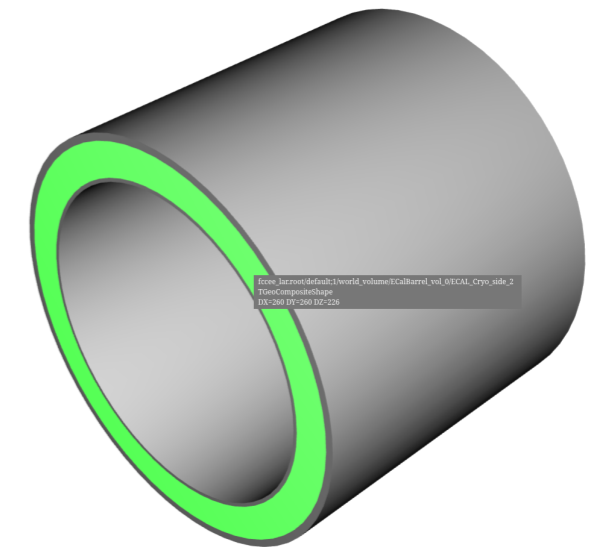
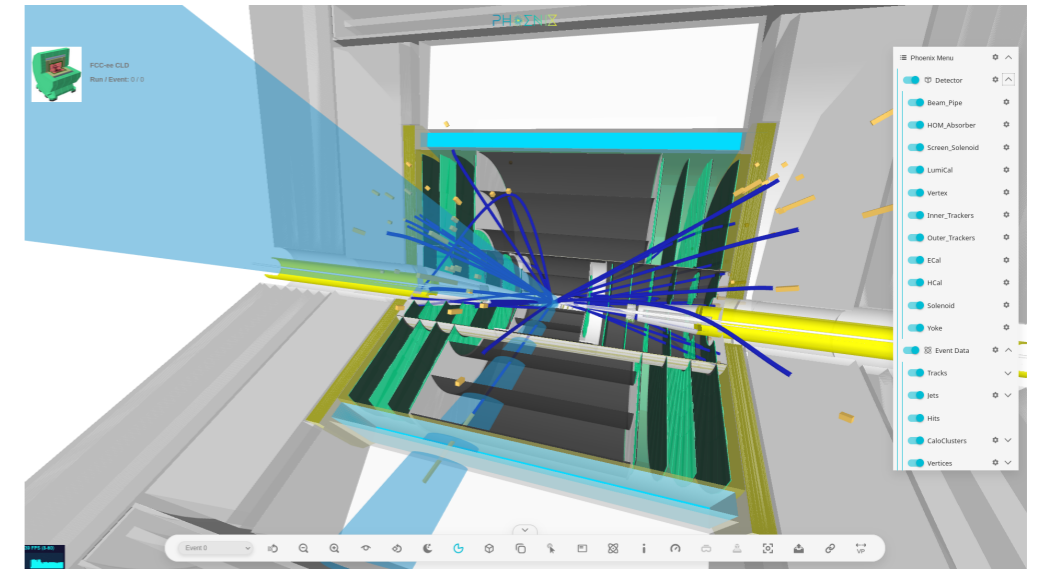
CERN

FCC Software Hands-on Tutorial

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# GOALS

- Visualize events and detectors
- Using web based tools
  - Independent of OS graphics
- **Phoenix**: Detector independent event display
  - Developed under HSF
  - Written in TypeScript
  - Static application
- **JSROOT**
  - Part of the ROOT project
  - Offers possibility to work with ROOT files on the web



# STRATEGY

- Separate event data and detector description
- Events
  - Described in [EDM4hep](#) event data format
  - Convert ROOT files into JSON files
  - EDM4hep data structure is kept
- Detector
  - Detector is described in [DD4hep](#) compact files
  - Convert XML into ROOT for JSROOT
  - Convert ROOT into glTF for Phoenix

