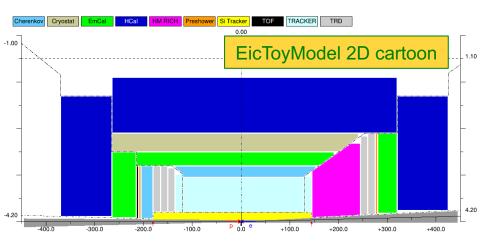
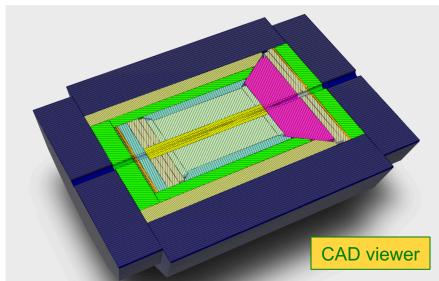
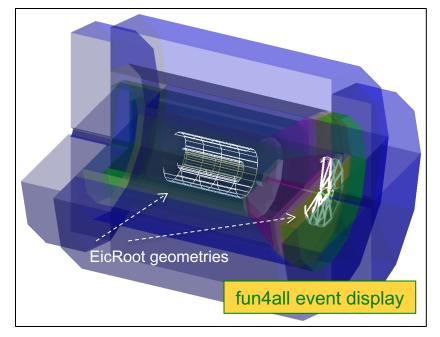
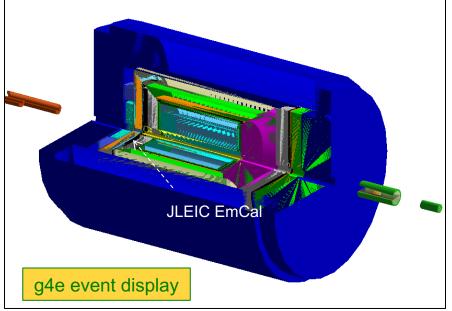
# Picture gallery from the Miami meeting

The same model in all cases









### Recent developments

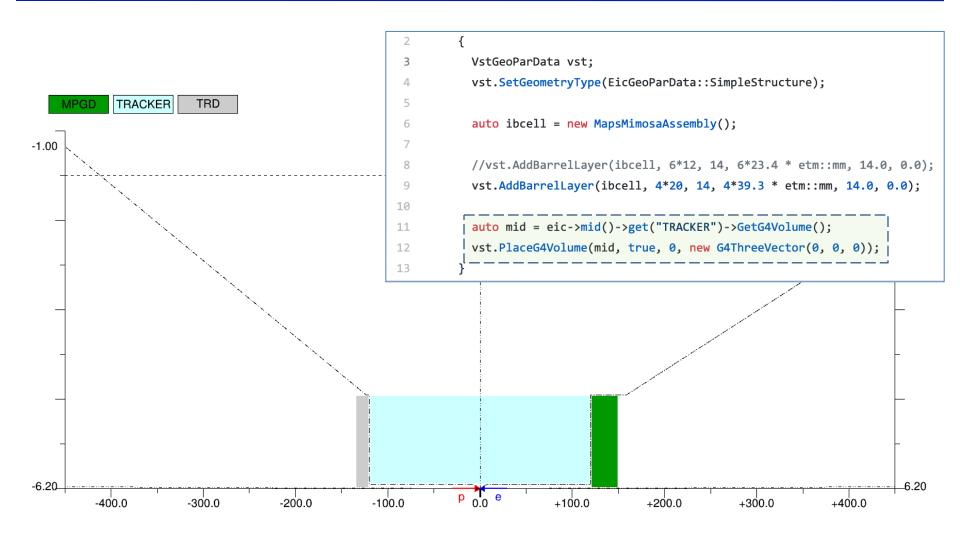
#### Documentation:

- Installation / running instructions for Catalina, Centos, Fedora, Ubuntu ...
- ... as well as escalate Docker container and fun4all singularity / cvmfs

#### Technical stuff:

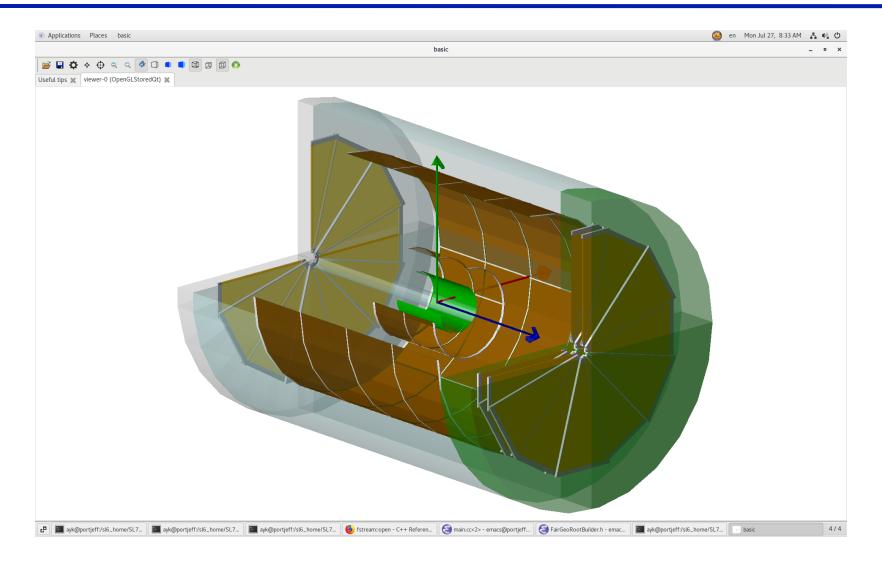
Several EicRoot tracker geometries moved to the EicToyModel

### EicRoot sandbox



- Central and endcap tracker integration volumes
- https://github.com/eic/EicToyModel/tree/master/examples/eicroot

### EicRoot sandbox

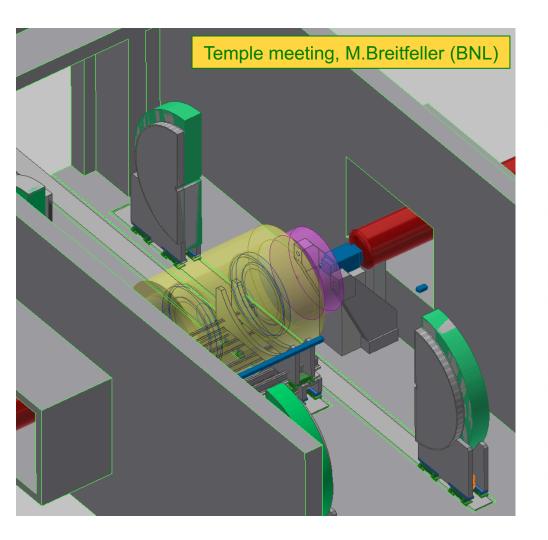


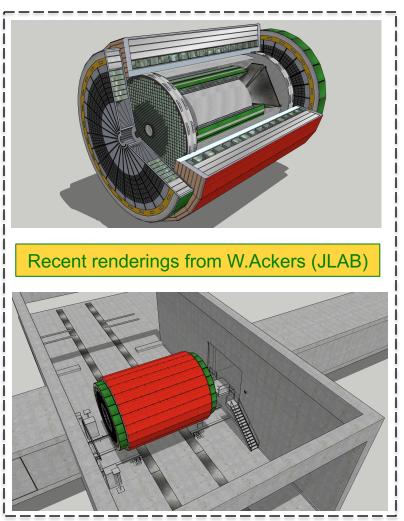
The same volumes in G4, populated by MM and GEM trackers

### Path forward

- Miami EICUG meeting two weeks ago:
  - A call asking to contribute to the EIC central detector layout discussion ...
  - ... with a goal of fixing a couple of configurations by around August 1
- Few remaining items on the EicToyModel TODO list:
  - A working actual interface for escalate and fun4all
  - A bit more advanced volume description (as per user feedback)
- Connection to the engineering effort
  - Services and dead material integration

## **Engineering effort**





Engineering design drawings better be in sync with the 2D cartoons and the GEANT detector layouts

## Sub-detector system specification request

#### Cabling

- o Power, signal, control, other
- Cable diameter, max bend radius, amount of material
- Grouping, layout scheme (trays, shafts, other)
- Other requirements (fragility, noise protection, grounding, etc)
- Maximum length to a patch panel and to the racks

#### Services

- Gas lines, cooling lines, other
- Service lines diameter, amount of material
- Is detector volume pressure sensitive (wire chamber windows, etc)?
- Other requirements / specs (thermal isolation, flammable gas, etc)
- Anticipated patch panel location, and splitting "philosophy"
- Suggested detector segmentation
  - Azimuthal, radial, other
  - Hierarchy (e.g. tower, block, sector) and associated dead zones
- Support structure
  - Integrated, external, bound to other subsystems, self-supporting
- Mounting (insertion) scheme and interface
- Alignment scheme and associated requirements (marks visibility, etc)

## Sub-detector system specification

- Weight per unit
- Unit dimensions, driven by technology (e.g. EmCal tower length, GEM module thickness), preferably broken down into active, frame, readout, integrated support parts
- Maintenance scheme, access needs
- Power line requirements (UPS, clean, utility, other)
- Cooling scheme and requirements (if applicable): air/gas, CW, LCW
  - Provide operating pressures for gas and liquid coolants
- Ambient temperature requirements
- Anything on vibration tolerance, frequency spectrum, etc?

#### Becoming a request to the DWGs