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# Track Recon Tasks For July Simulation Campaign

**Shujie Li, Ernst Sichtermann**

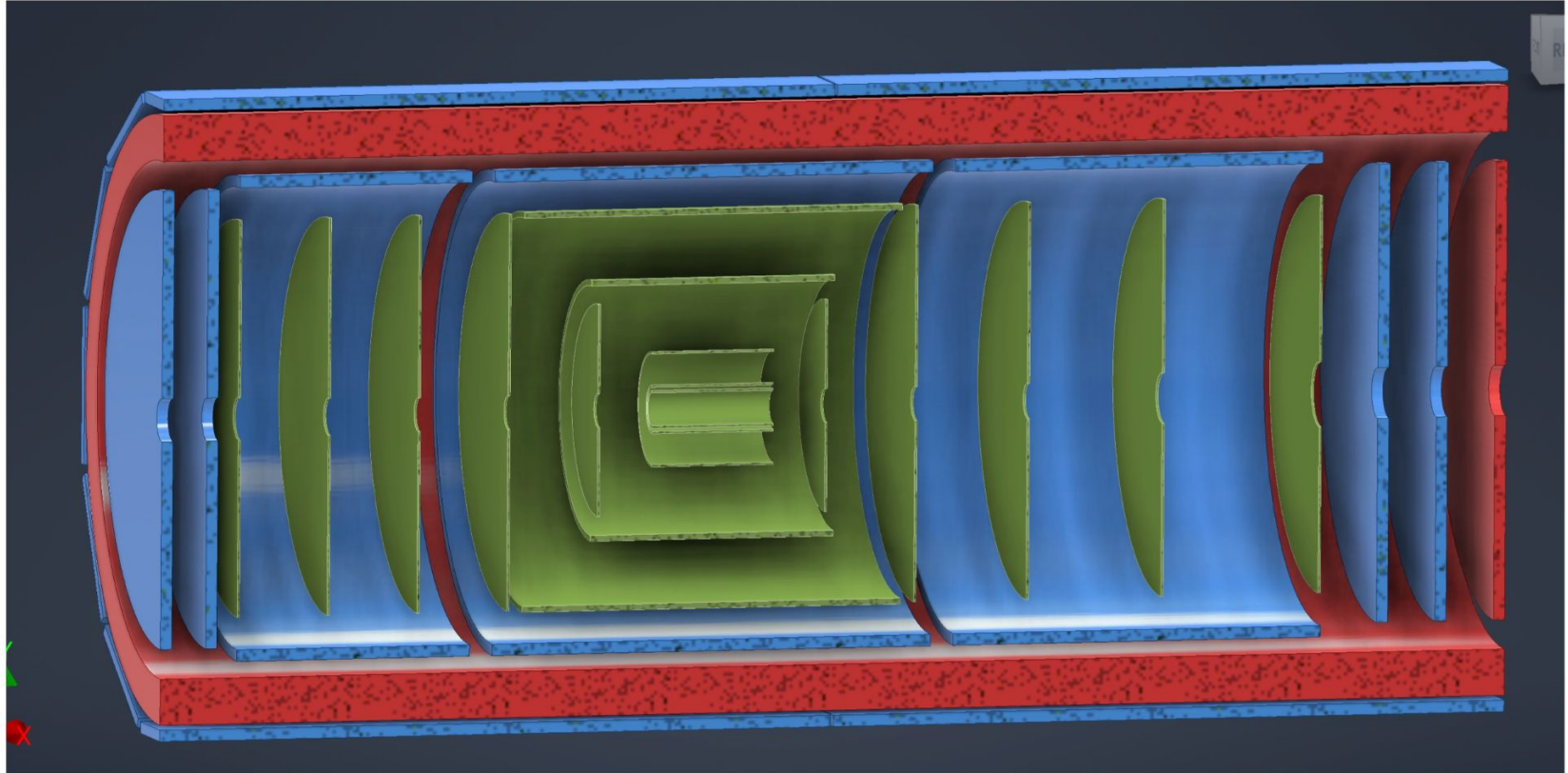
**ePIC track recon task force meeting**

**June 22, 2023**



# New Tracking Geometry

See Ernst's presentation: <https://indico.bnl.gov/event/19854/>



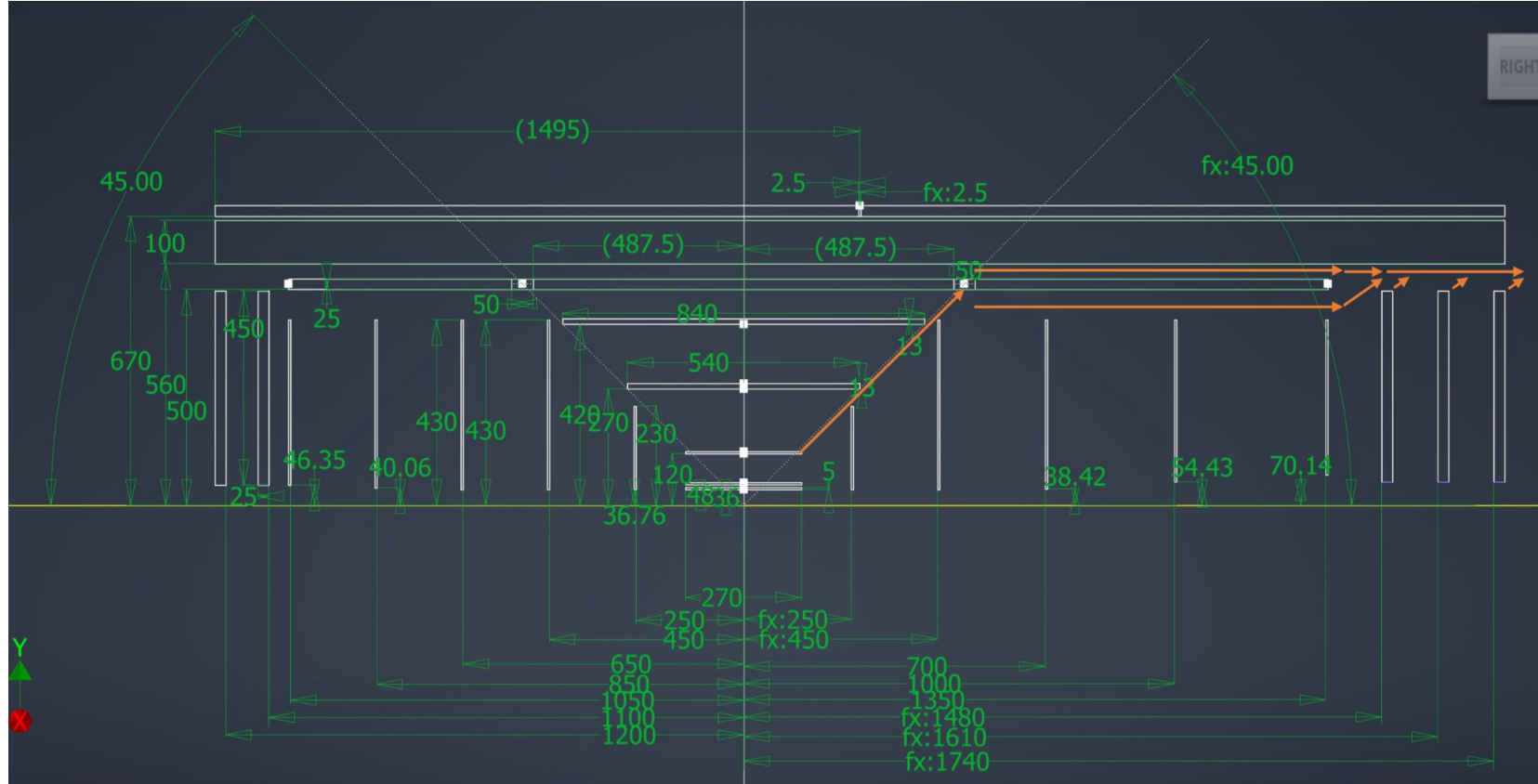
SVT

MPGDs

ToF (fiducial volume)

# New Tracking Geometry

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# Tasks:

Timeline: July 3rd – code freeze for simulation campaign

August: demonstrate viability of the ePIC tracking configuration for CD-3A.

## 1. Geometry implementation and ACTS integration

a. SVT - Shujie

~~i. Optional: realistic beampipe opening shape for silicon disks - Stephen ?~~

b. MPGDs - Matt

c. TOF disks - Nico ?

d. Imaging layers - Sylvester ?

## 2. Service routing for SVT/MPGD, and material map - Shujie, Ernst

## 3. Track reconstruction validation

a. Resolution check with single particle event (truth vs realistic seeding) - Stephen

b. Performance demonstration with DIS events - ?

c. Background integration - Kolja