

Planning

- Follow-up on [UIC meeting priorities](#).
- **Post-review topics:**
 - Software decision on metadata handling.
 - AI/ML integration in reconstruction and production workflows.
- Joint meetings with PWGs will start at the end of October and will occur monthly.
- Meeting with EICUG WG on **Detector-II** soon who plan to use ePIC Software.
- Planning to **omit the January campaign** in consideration of the holidays.
 - December campaign will be important input for the collaboration meeting.
- Proposed **parallel session on software and simulation readiness for TDR** during the collaboration meeting.
- **Next in-person meeting:** April/May 2025 at CERN. Discussing following dates with CERN:
 - April 22–26
 - April 29–May 3
 - May 6–10

News

- **Communicating our Software Progress:**

- Detailed changelogs structured by subsystems, e.g., <https://github.com/eic/EICrecon/releases/tag/v1.6.0>

- **New Detector Geometry Matrix [Detector-20230929162408](#)**

Many thanks to EIC Project!

– Uploaded on Sept. 29:

- Overall update to make detector envelopes consistent with the Sept 2023 CAD model.

– CSV version available. **Highly appreciated!**

EIC GEOMETRY

FRI, 29 SEP 2023 16:24:08



EIC DETECTOR GEOMETRY INTERACTION POINT 6

Region	Component	Sub-Component	WBS	Length (cm)	Inner Radius (cm)	Outer Radius (cm)	Offset from Center (cm)	Physical Start (cm)	Physical End (cm)	Volume (m ³)	Weight (kg)	Technology	Notes
HADRON DIRECTION END CAP	HD Flux Return (Collar)			170	269	324	414.6	329.6	499.6	17.42	136,685	Iron	Offset: measured from center. Weight estimated as 100% iron.
	Hadron Calorimeter		6.10.06	140	17.5	267	359.6	359.6	499.6	31.22	199,896	FeSc, WSc last segment	Tower size: 5cm x 5cm x 140cm including 10cm readout Offset: measured from face nearest to interaction point Weight: estimated as 79% iron and 21% plastic
	HD Flux Return (Oculus)			22.2	195	267	340.7	329.6	351.8	2.32	18,205	Iron	Offset: measured from center. Weight estimated as 100% iron.
	Electromagnetic Calorimeter		6.10.05	30	14.0	195	329.6	329.6	359.6	3.57	23,048	Pb/Sc	Tower size: 2.5 cm x 2.5 cm x 30 cm including readout 10cm Offset: measured from face nearest to interaction point Weight: estimated as 85% lead glass and 15% steel
	Service Gap			13.6			316	316	329.6				Offset: measured from location nearest to interaction point
	Dual RICH		6.10.04	120	14.0	180	320	200	320	10.47	1,946	Aerogel/Gas	Offset: measured from face farthest from the interaction point Volume: calculated as sum of the sub-sections Weight: based on parametric estimate from CLAS LTCC
		<i>Detector Section</i>		<i>9.4</i>	<i>14.0</i>	<i>180</i>	<i>226</i>	<i>226</i>	<i>320</i>	<i>9.51</i>			<i>Offset: measured from face nearest to interaction point</i>

