MPGD Geometry Summary

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Geometry Change Summary

- ➤ Simulation geometry modified for Oct. release to match CAD drawing from March 2025

- ➤ Barrels

Source	Detector	Inner Radius [mm]	Outer Radius [mm]	dR [mm]	Z-Negative [mm]	Z -Positive [mm]
CAD	CyMBaL	550	605	55	1025	1450
Previous Sim		550	592	42	1050	1430
CAD	*BOT	735	760	25	1825	1875
Previous Sim		725	750	25	1645	1745

* μRwell-Bot:
  - o Implementation in simulation runs from -1795 mm < z < 1845 mm, within CAD envelope
  - o PCB board extended for FEB placement

- ➤ Endcaps

Source	Detector	Inner Radius [mm]	Outer Radius [mm]	Z Front [mm]	Z Back [mm]	dZ [mm]
CAD	Backward Disk 1/2	70 / 70	400 / 400	1075 / 1200	1100 / 1225	25 / 25
Previous Sim		46.53 / 46.53	500 / 500	1100 / 1200	1125 / 1225	25 / 25
CAD	Forward Disk 1/2	81.24 / 81.24	400 / 400	1500 / 1625	1525 / 1650	25 / 25
Previous Sim		90 / 90	500 / 500	1480 / 1610	1505 / 1635	25 / 25

Geometry Change Summary

- Module geometry as of October campaign