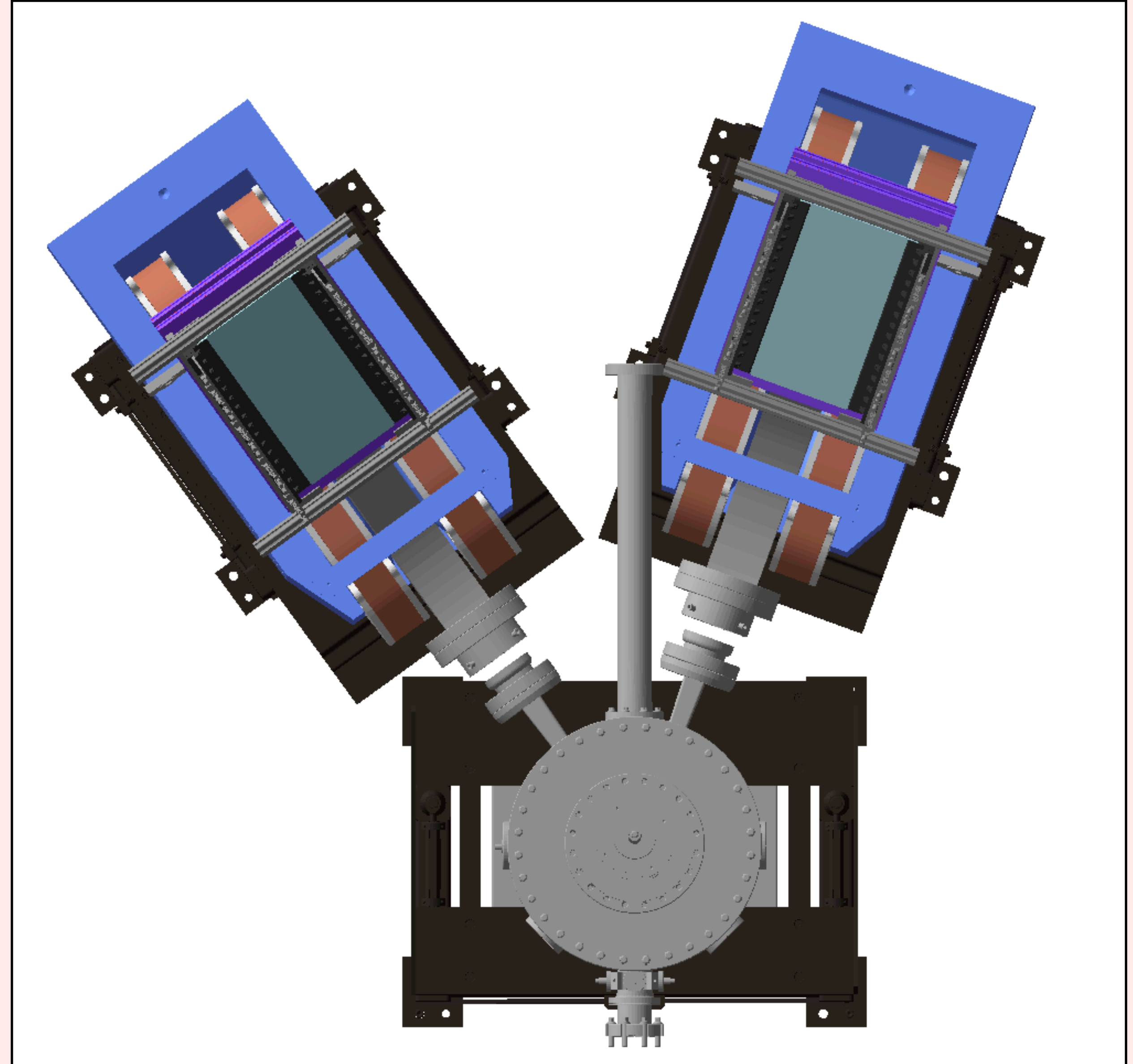


# Implementing survey to simulation

From Doug's summary email on Oct. 19th:

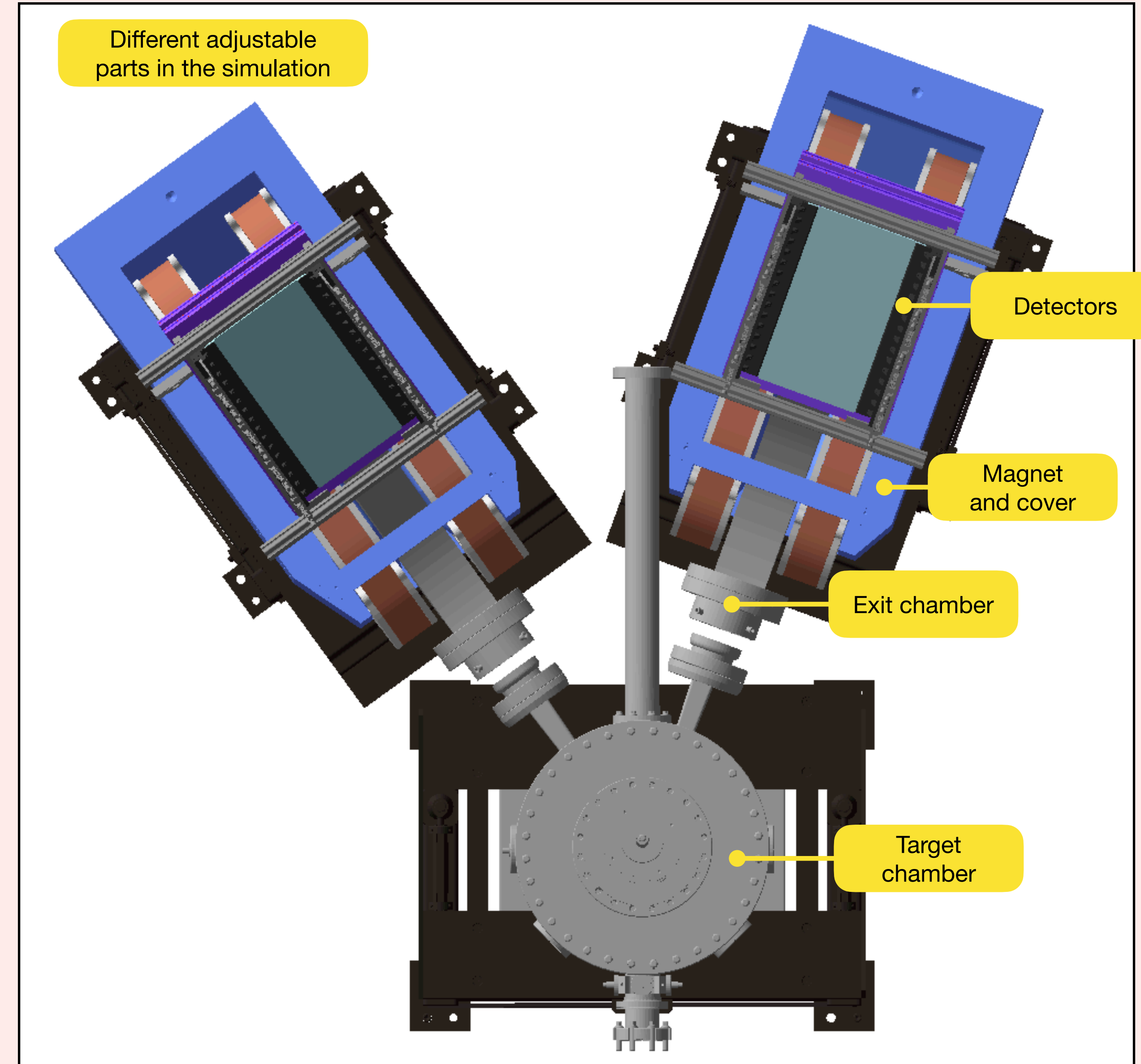
- ▶ Target center is 0.52 mm north
- ▶ Scattering chamber upstream fiducial is 0.55 north
- ▶ Scattering chamber south fiducial is 1.46 north
- ▶ Dipole magnets were positioned and surveyed to be very close to their nominal locations
- ▶ North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
- ▶ South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically



# Implementing survey to simulation

From Doug's summary email on Oct. 19th:

- ▶ Target center is 0.52 mm north
- ▶ Scattering chamber upstream fiducial is 0.55 north
- ▶ Scattering chamber south fiducial is 1.46 north
- ▶ Dipole magnets were positioned and surveyed to be very close to their nominal locations
- ▶ North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
- ▶ South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically

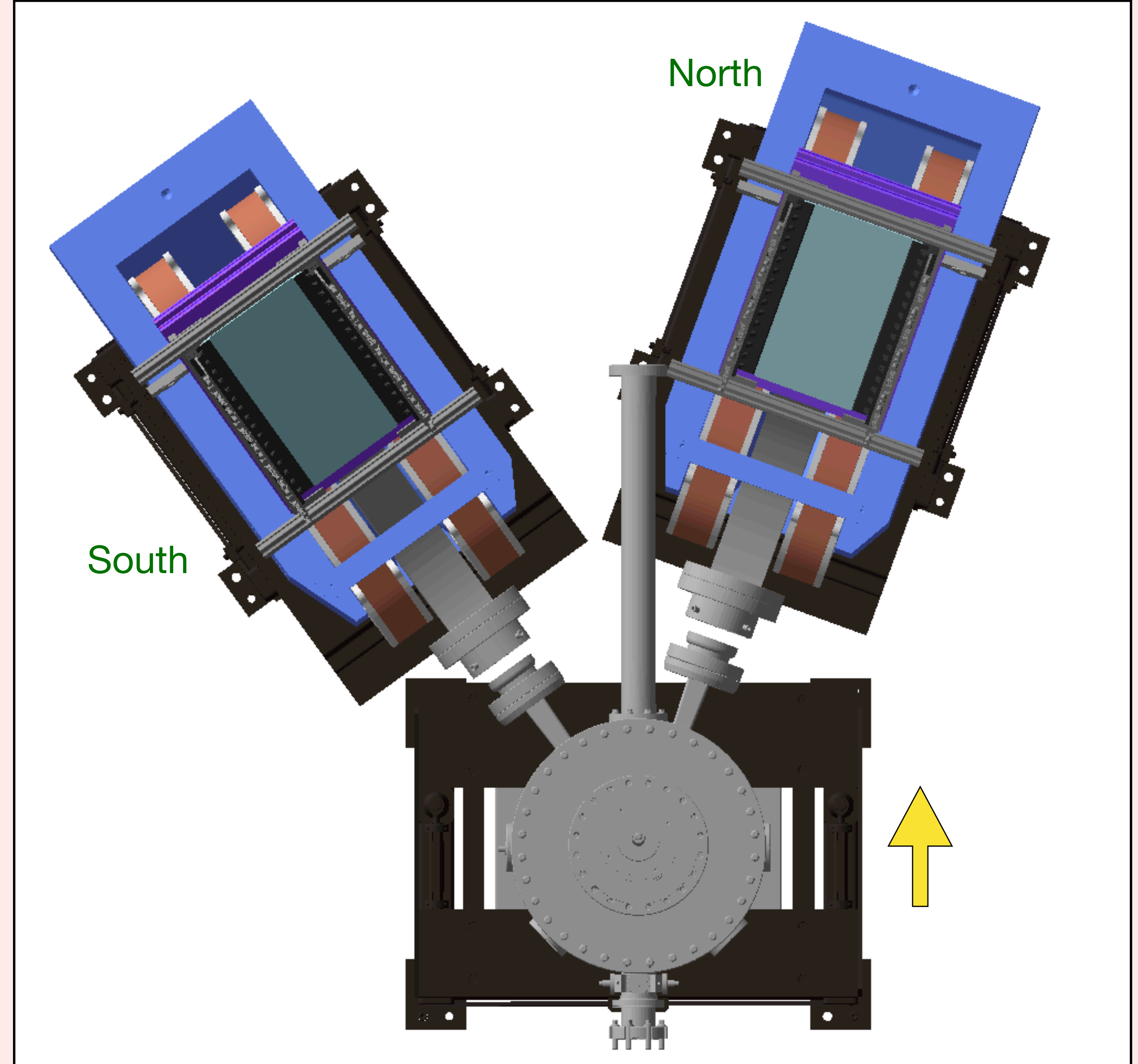




# Implementing survey to simulation - target chamber

From Doug's summary email on Oct. 19th:

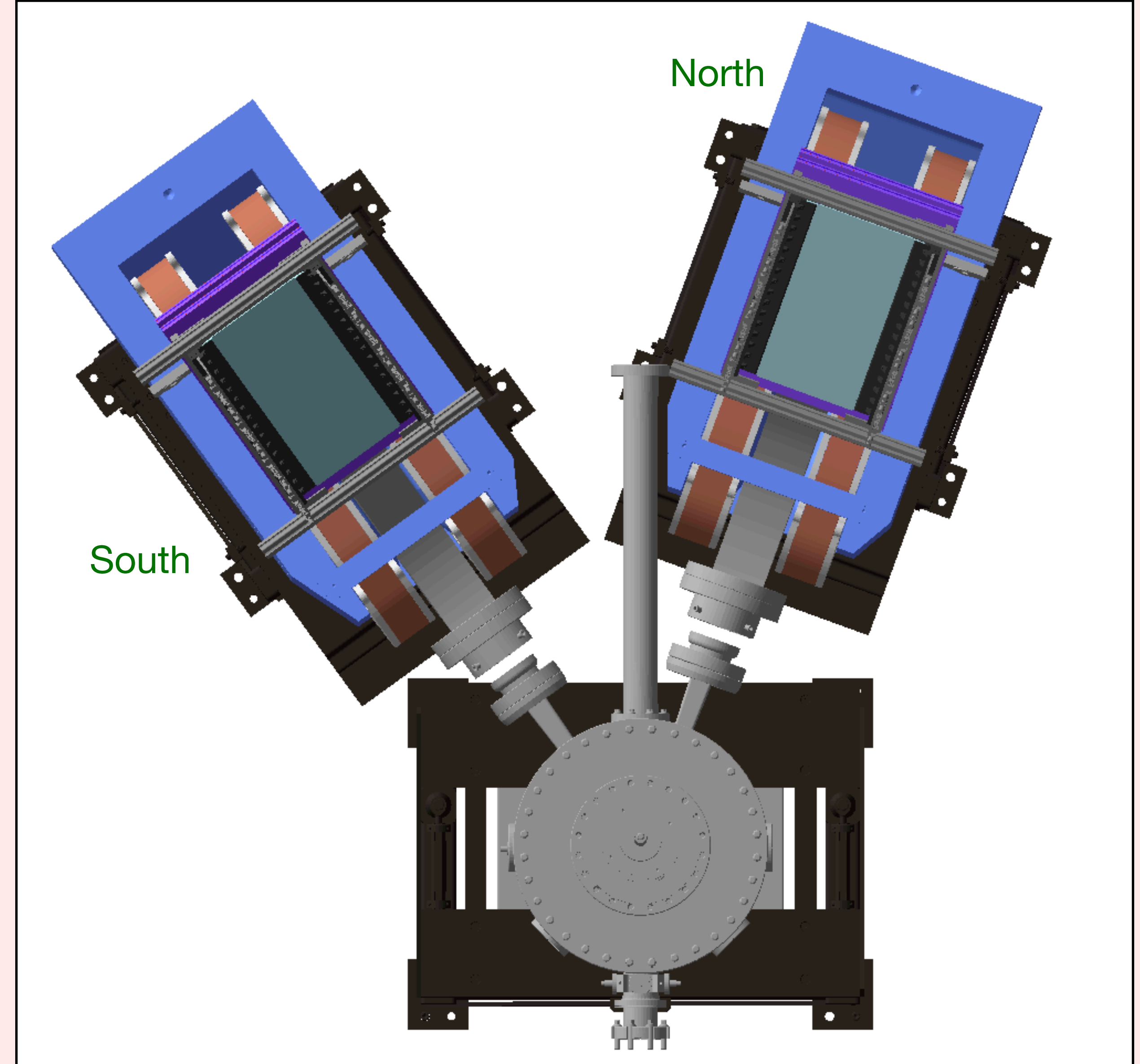
- ☑ Target center is 0.52 mm north
- Scattering chamber upstream fiducial is 0.55 north
- Scattering chamber south fiducial is 1.46 north
- Dipole magnets were positioned and surveyed to be very close to their nominal locations
- North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
- South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically



# Implementing survey to simulation - dipoles

From Doug's summary email on Oct. 19th:

- ☑ Target center is 0.52 mm north
  - Scattering chamber upstream fiducial is 0.55 north
  - Scattering chamber south fiducial is 1.46 north
- ☑ Dipole magnets were positioned and surveyed to be very close to their nominal locations
  - North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
  - South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically

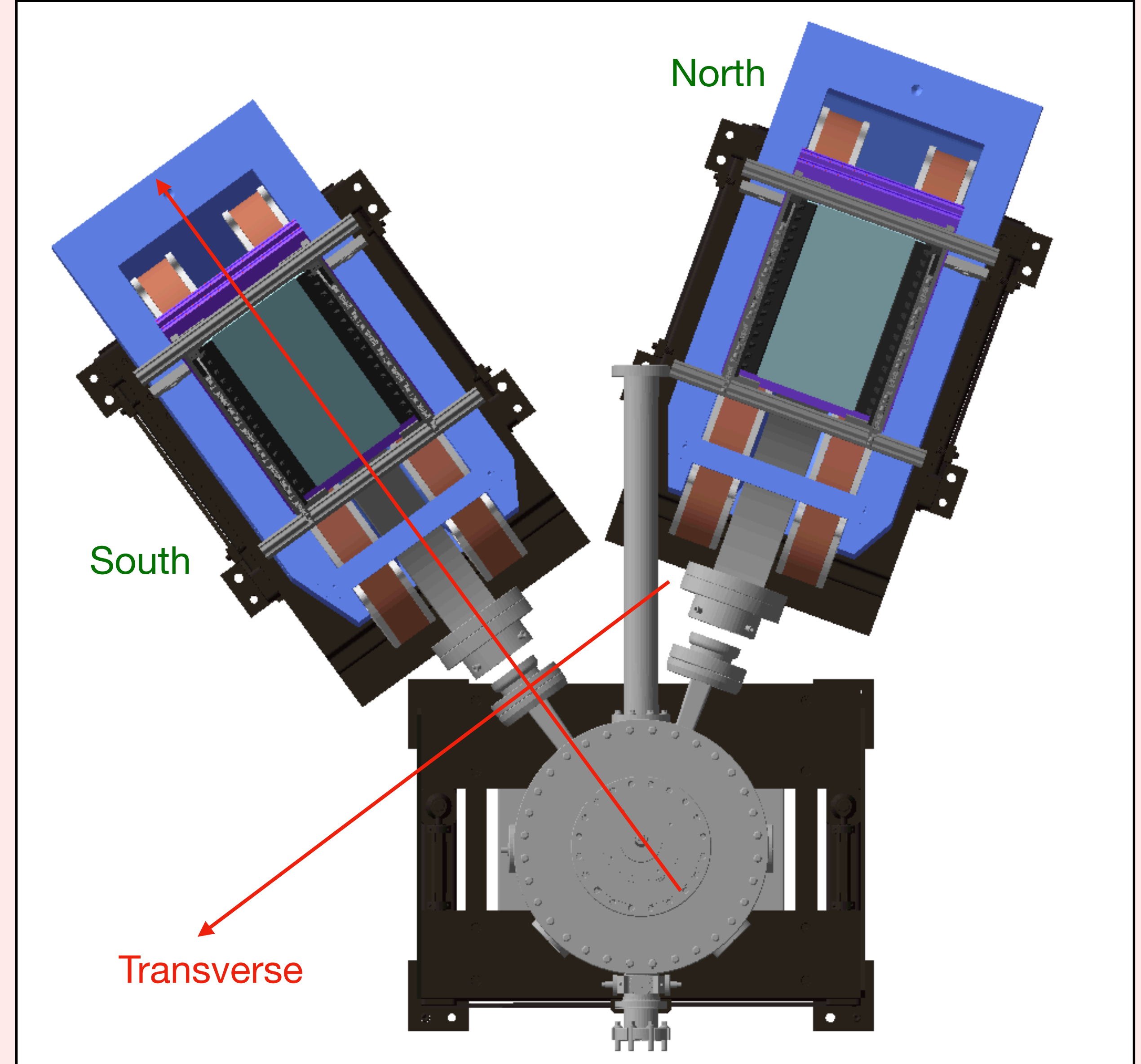




# Implementing survey to simulation - exit chambers

From Doug's summary email on Oct. 19th:

- ☑ Target center is 0.52 mm north
  - Scattering chamber upstream fiducial is 0.55 north
  - Scattering chamber south fiducial is 1.46 north
- ☑ Dipole magnets were positioned and surveyed to be very close to their nominal locations
- ☑ North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
- ☑ South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically



# Implementing survey to simulation - exit chambers

From Doug's summary email on Oct. 19th:

- ☑ Target center is 0.52 mm north
  - Scattering chamber upstream fiducial is 0.55 north
  - Scattering chamber south fiducial is 1.46 north
- ☑ Dipole magnets were positioned and surveyed to be very close to their nominal locations
- ☑ North dipole vacuum chamber: 0.87 mm closer to the target, shifted 0.41 mm transversely, 0.19 mm vertically
- ☑ South dipole vacuum chamber: 3.75 mm away from the target, shifted -1.1 mm transversely, -0.82 mm vertically

One must remove `~/.darklight/share/stl` and reinstall these files for the updated simulation!

