



HIGH ENERGY PHYSICS



DISCOVERY OF THE COSMOLOGICAL BACKGROUND OF NEUTRINOS

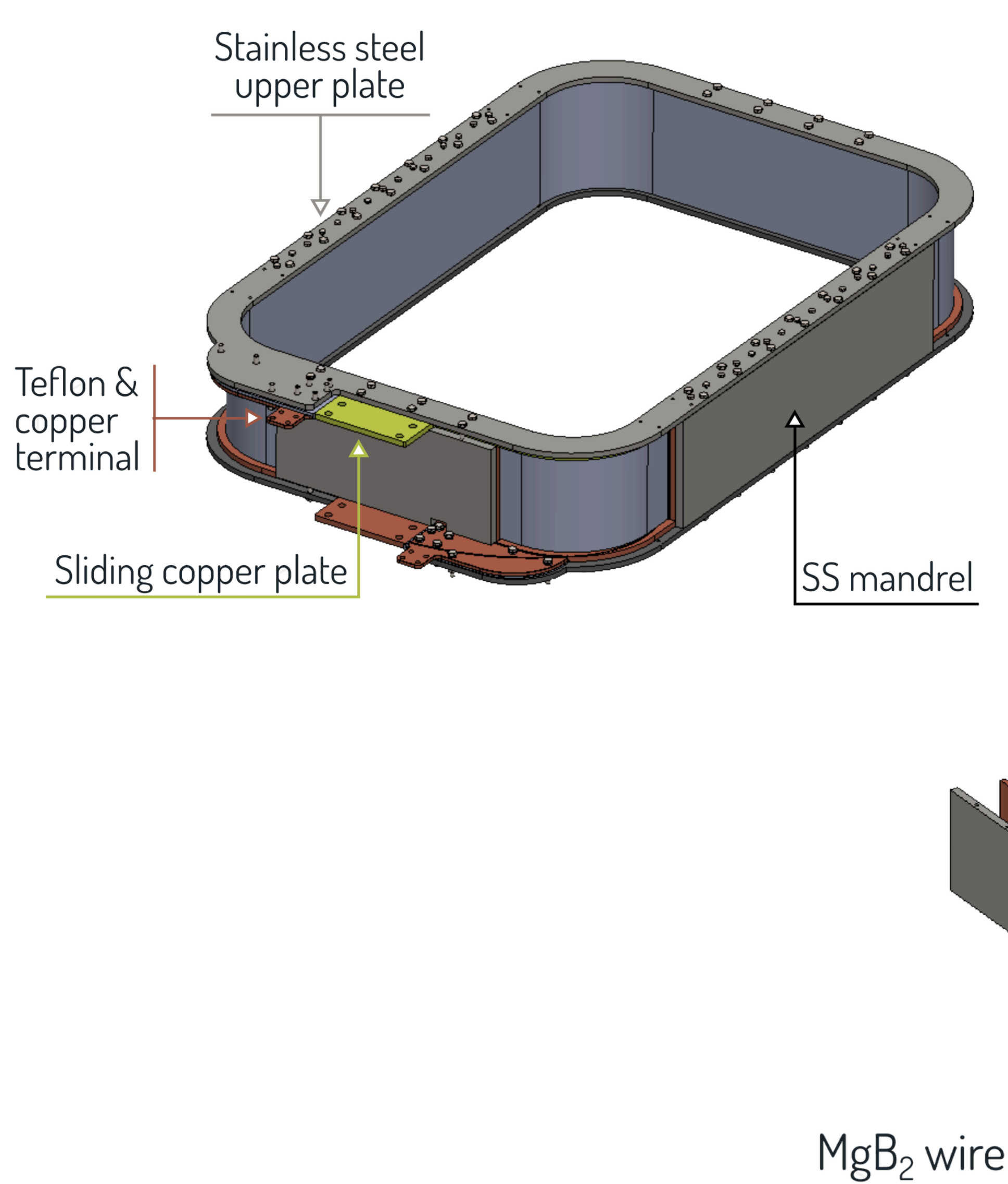
The PTOLEMY project aims at detecting the Cosmological Relic Neutrinos, which are expected to be the oldest, among the particles of the Standard Model, witness of the beginning of the Universe.



LOW COMSUMPTION MGB2 MAGNET FOR PTOLEMY EXPERIMENT

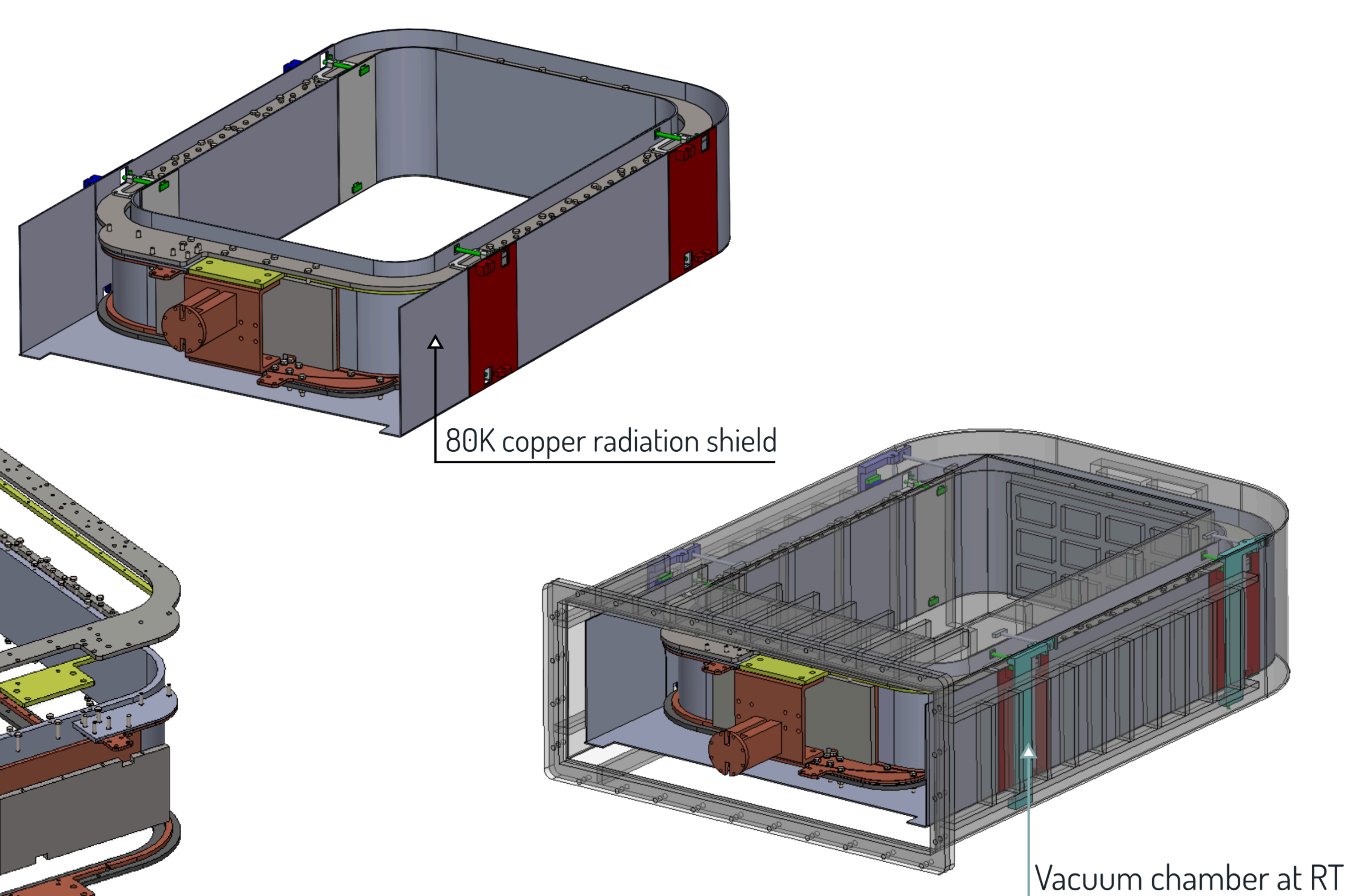
COIL ASSEMBLY

Engineered for efficient operation and minimal energy use.



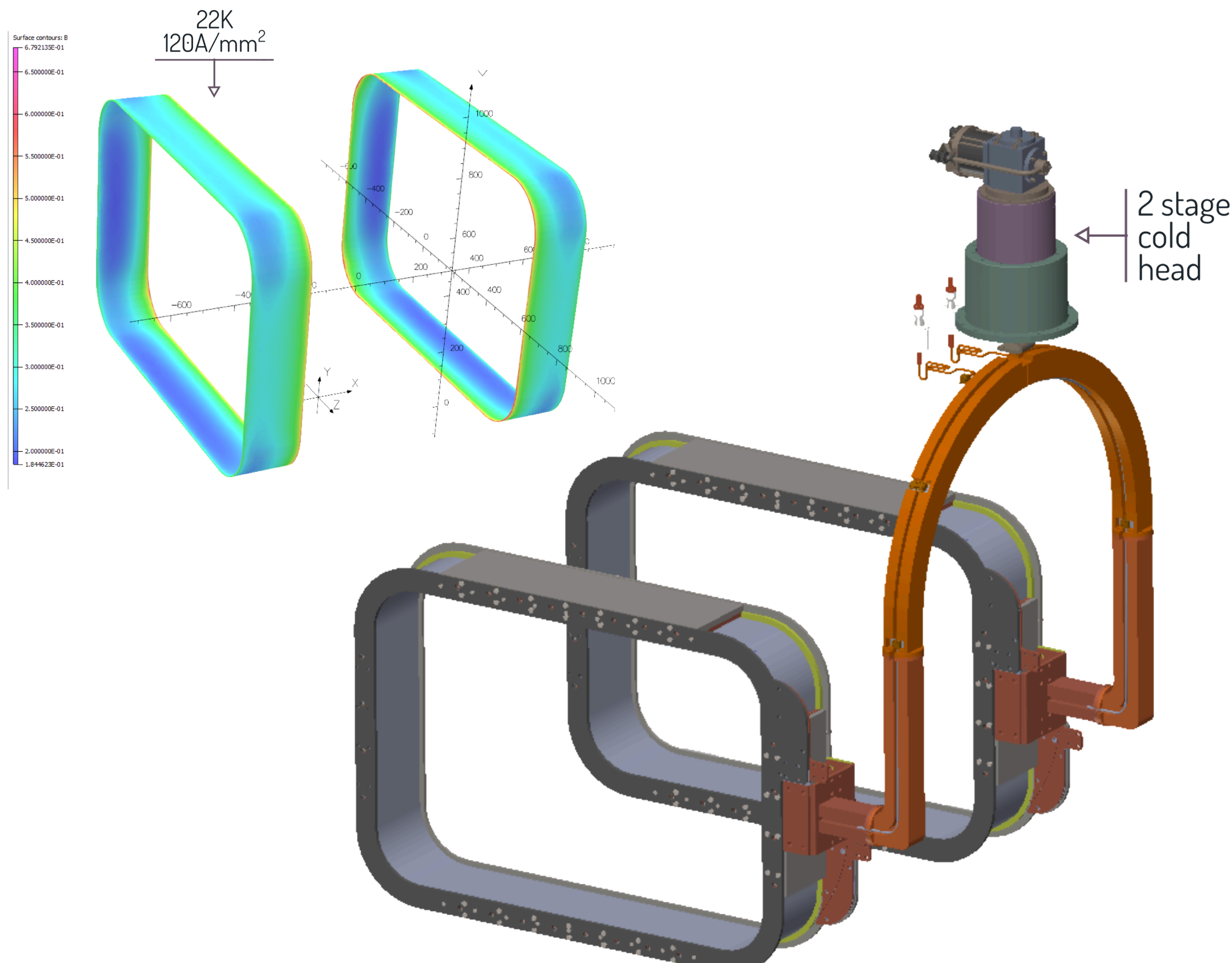
MODULAR CRYOSTAT

Components designed for flexibility and easy integration.



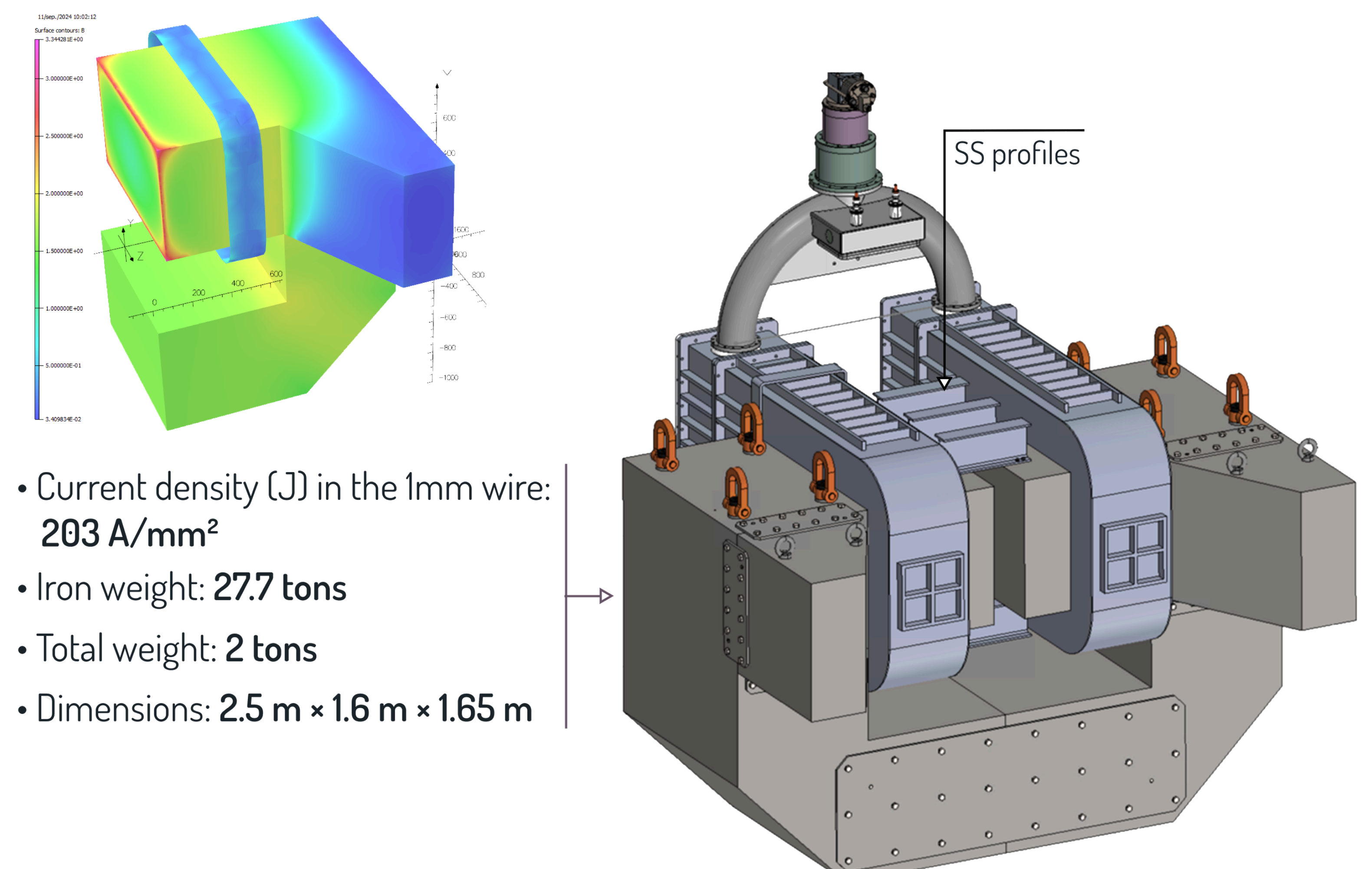
COLD MASS (20K)

Ensures thermal stability and low temperature differences.



MAGNET ASSEMBLY

Provides stable and homogeneous magnetic field in the airgap. The horns provide tuned stray field to ensure the right filter operation.



- Current density (J) in the 1mm wire: 203 A/mm²
- Iron weight: 27.7 tons
- Total weight: 2 tons
- Dimensions: 2.5 m × 1.6 m × 1.65 m