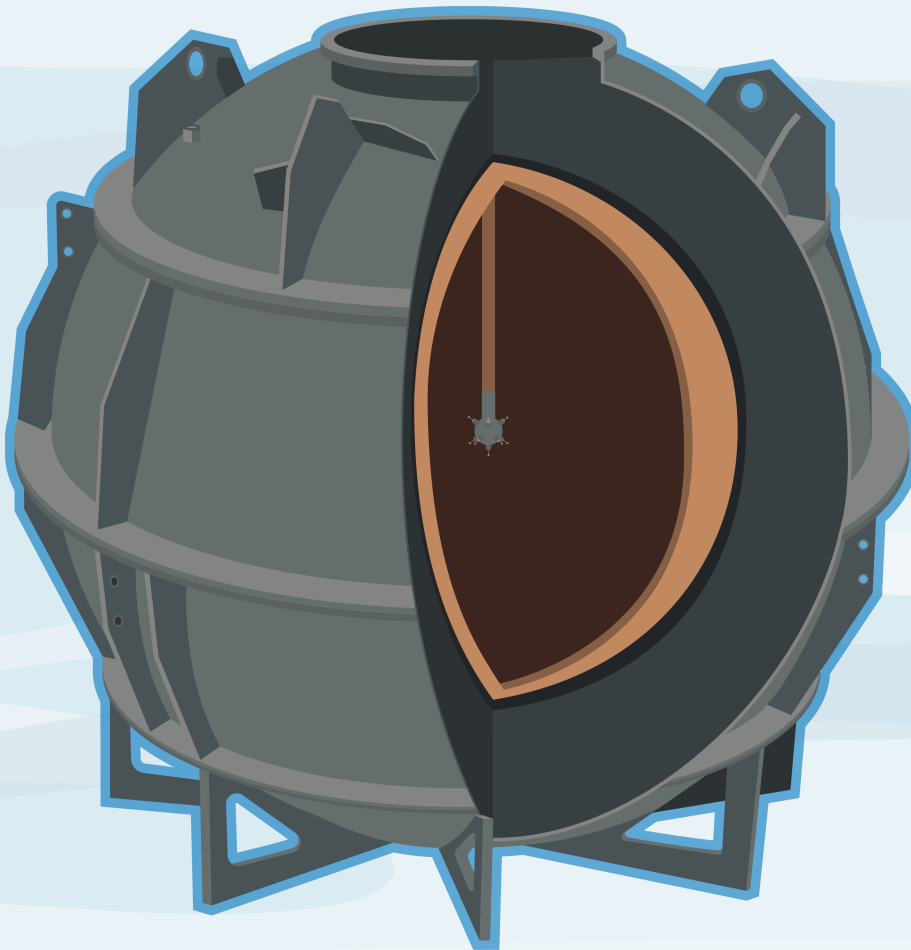


# NEWS-G

## Detection with gas



NEWS-G uses a spherical copper vessel filled with a noble gas to search for dark matter. When a particle enters the sphere it ionizes some of the gas, creating electrons.

The sensor in the middle of the sphere is kept at a high voltage to attract the electrons, which creates a charge that can be measured.

The pieces of the detector made in Europe had to be shipped to SNOLAB by sea because a flight would expose them to too much radiation.

The pieces of lead shielding for NEWS-G are the heaviest objects ever shipped underground to SNOLAB.

