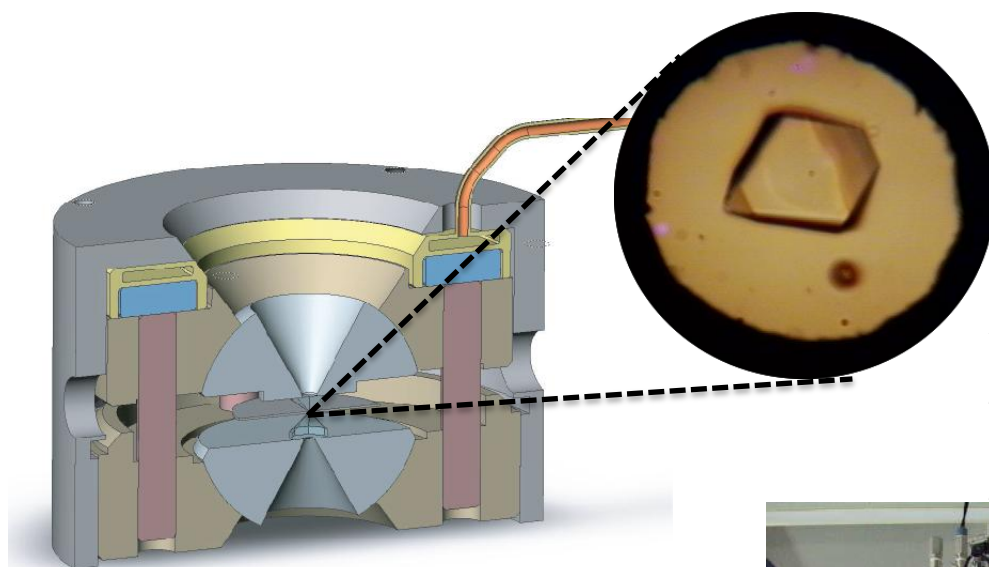


# Samples environments: extreme conditions



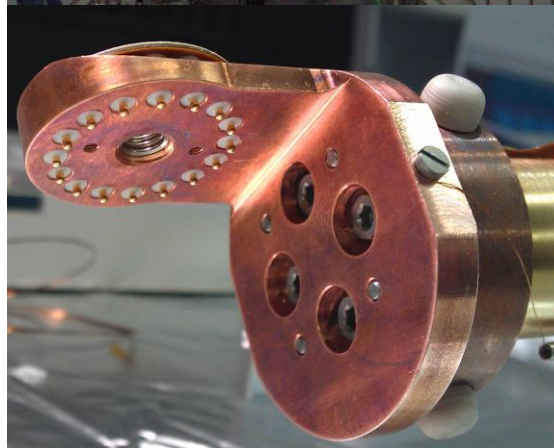
Left: Schematic view of a Membrane Diamond Anvil Cell (MDAC) for high pressure/temperature. Photo of a crystal inside the cell with its ruby pressure gauge

The attractiveness of a beam-line station can be greatly enhanced by the **sample environment**: it can offer to users, either a specific ancillary equipment or a common pool shared among beamlines in a synchrotron.

**Introductory examples.** In this workshop, two short talks will give examples of both cases at SOLEIL and in other synchrotrons for particularly demanding environments:

- **high pressure and high temperature conditions** (Alain Polian, IMPMC, Paris)
- **high magnetic/electric fields and very low temperature** (Loïc Joly IPCMS, Strasbourg).

**Round table.** We hope these examples will stimulate discussion between the users and the SOLEIL staff and management, in particular on possible applications, other systems on different beamlines, possibilities for exciting novel experiments...



Top: DEIMOS Cryomagnet (maker: Air Liquid). Bottom: Copper sample holder on cryostat insertion, with gold connections for applying electric stimuli.