

## **Magnetic field management in cryomodules and vertical cryostats at CEA-Saclay**

*Thursday 8 November 2018 09:50 (25 minutes)*

Limitation of the flux trapping in superconducting cavities requires magnetic field management around cavities. At CEA, this activity is carried out both for cryomodules (IFMIF, ESS, SARAF) and test facilities. Appropriate magnetic shielding must be provided, and magnetic field sources must be avoided close to the cavities. This latter point requires the selection of non magnetic material for all elements located close to the cavity. When solenoids are located inside cryomodules (e.g. IFMIF, SARAF), it must be verified that the surrounding elements will not be magnetised.

The presentation will describe tests and solutions implemented at CEA for this purpose.

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**Session Classification:** Magnetic shielding