HiMAGNETOS
High Magnetic Field Open Science

OSCARS
Open Science Clusters' Action for Research & Society

The HiMAGNETOS project strives to establish comprehensive standards, develop specialised tools, and create a centralised data repository that will facilitate the production of FAIR data, promoting a more collaborative research environment by enhancing FAIR open access to high magnetic field research data generated at the Laboratoire National des Champs Magnétiques Intenses (LNCMI).

ENVRI
Environmental Sciences

PaNOSC
Photon and Neutron Science

ESCAPE
Astronomy, Nuclear and Particle Physics

OTHER

LS RI
Life Sciences

Challenge

Existing open data initiatives primarily promote generic frameworks that do not adequately address the specific requirements of high magnetic field experiment. This lack of targeted support creates significant barriers for researchers who wish to share their findings or access critical experimental data.

Solution

An open central data repository, complete with defined curation policies and uploading procedures, and with research data linked to the original experimental proposals, enhancing data quality and usability. To enhance data reuse and interoperability, a number of data reduction software packages will be made open source or available as an online notebook.

Scientific Impact

HiMAGNETOS is envisioned as a pilot phase toward the broader integration of European Magnetic Field Laboratory services into the EOSC, fostering a culture of Open Science in the domain of high magnetic field research, while empowering researchers to build upon existing data.

https://www.oscars-project.eu/projects/himagnetos-high-magnetic-field-open-science

Partners

Laboratoire National des Champs Magnétiques Intenses (CNRS)