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Introduction and brief presentation of the Platform

Introduction :

This Paris-Saclay mutualized platform was created in 2009 by several instituts following the need for an efficient and versatile system for the study of physical properties of materials. The instruments on this platform represent a -2M€ investment and are a PPMS (2009), a SQUID magnetometer (2012), a dry fast loading dilution fridge (2020) and a VSM magnetometer (expected to be operational at the beginning of 2025). These systems can be used to study transport properties (resistance, Hall effect) or thermodynamic properties (specific heat, magnetic properties) on a wide range of temperatures (10mK-400K) and magnetic fields (9-1-1 T vectorial), on a variety of samples, enabling a wide range of condensed matter physics problems to be studied: superconductivity, frustrated magnetism, thermoelectric effect, nano-magnetism, etc. The open-access, versatility and user-friendliness of this platform mean that it can be used by anyone, including trainees, short-term visitors and students.

Booking measuring time on the instruments :

- PPMS:

<https://docs.google.com/spreadsheets/d/1XZ-O4kt2ryxwyRgYIPhZEcEMJLQHNZ51/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

- Bluefors: Please contact Alexei Chepelianskii.

- VSM:

<https://docs.google.com/spreadsheets/d/1ubcWJl-PdvtvHS0JVHu9cGWxTyTxuaGF/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

News :

https://docs.google.com/document/d/1hz1DNJo6fYdOoh5SuqY3_Xgms88wVcvX/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true

Administration / Governing / Human resources :

<https://docs.google.com/document/d/1jkZeMneAaBJOjvQBkZ63djivm5YW4Yry/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

Detail of the Instruments :

https://docs.google.com/document/d/1AmOjkFYX6HfN9wiZEklkOryOCS7fA_fc/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true

Results of the Platform :

<https://docs.google.com/document/d/12p4aJWhZlXkTZFY5FhH1RjnLuKmYAYgE/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

Users and rate of use of the Platform :

<https://docs.google.com/document/d/1tuBLCxNlJcg9aB2z20ShF8Dle1rwLkWzg/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

Finance aspects of the Platform :

<https://docs.google.com/document/d/1GRT8c2Yal2HJq2ZzCGVfsWjilOY4eGkD/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>

Challenge and future aspects of the Platform :

<https://docs.google.com/document/d/1zZS6loMOvOlS6nnvjdqNmKC-zreZgG/edit?usp=sharing&ouid=105808315327174356848&rtpof=true&sd=true>
