

Pulsed High Magnetic Fields for Synchrotron and Neutron Applications

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Over the past years, numerous efforts have been performed to combine high magnetic fields with X-ray and neutron scattering experiments. This combination is of significant interest as it provides new opportunities for the study of magnetic materials. In this context, pulsed magnetic fields play a central role, operating in the 30-40 T range, high above superconducting magnets.

In this talk I will review the various pulsed field magnet devices jointly developed by the LNCMI-Toulouse, the ESRF, the ILL and the CEA, Grenoble. These developments will be illustrated with some recent results.

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