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Sat-Af-Or2-04: Status of the High-Field Nondestructive Pulsed-Magnet-Development at the Laboratoire National des Champs Magnétique Intense

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The Laboratoire National des Champs Magnétiques Intenses (LNCMI) is a French host facility for experiments in high magnetic fields. LNCMI is a member of the European Magnetic Field Laboratory (EMFL) with the Hochfeld-Magnetlabor in Dresden (HLD) and High Field Magnet Laboratory in Nijmegen (HFML). Based on two sites, the LNCMI offers routinely static magnetic fields up to 37 T at its Grenoble site, and pulsed magnetic fields up to 90 T using nondestructive magnets and up to 200 T using single-turn coils at its Toulouse site. Most of the instrumentation required by experiments in magnetic field, including the electromagnets that generate these high fields is developed in the laboratory. We present here some recent developments on our triple-coil-magnet aiming to generate 100 T nondestructively for our users.

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