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## **Sat-Af-Or2-05: Recent upgrades at Pulsed Field Facility –National High Magnetic Field Laboratory**

*Saturday 5 July 2025 15:00 (15 minutes)*

The National High Magnetic Field Laboratory (NHMFL) –Pulsed Field Facility (PFF) at Los Alamos operates ten pulsed magnet stations that deliver magnetic fields up to 100 T for user experiments. In recent years, PFF has enhanced its capabilities with upgraded magnets, enabling the generation of higher magnetic fields and an increased number of pulses. This presentation will provide an overview of recent magnet upgrades at PFF, including the performance of new systems such as the 75T and 85T duplex magnets. Additionally, a novel cooling technique that significantly reduces cooling time without compromising magnet lifespan or stability will be discussed. Lastly, the presentation will cover maintenance and upgrades of our facility's signature magnet systems, including the 100T multi-shot and 60T controlled-waveform magnets.

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