

Abstract Submitted  
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**Addressing signal recovery challenges in pulsed field environment**<sup>1</sup> FEDOR BALAKIREV, YOSHIMITSU KOHAMA, MOAZ ALTARAWNEH, ROSS MCDONALD, MARCELO JAIME, ALBERT MIGLIORI, CHARLES MIELKE, LANL — We review approaches to recovering weak electric signals in the challenging environment of pulsed magnetic fields implemented at the National High Magnetic Field Laboratory Pulsed Field Facility (NHMFL-PFF). Recent technique developments including AC-specific heat measurements at sub-kelvin temperatures, nanosecond-scale resistivity measurements, as well as customized instrumentation and computer-assisted signal detection using Field Programmable Gate Arrays will be discussed.

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