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Latest Developments in Magnetic Measurements

This abstract presents Metrolab's recent advancements and innovations in NMR and Hall magnetometry, along with our pursuit of ISO 17025:2017 accreditation. We introduce the MFC8246 motorized mapper, designed for precise electromagnetic field mapping within small bore magnets. Furthermore, we discuss the HallinSight technology, a significant advancement in three-axis Hall magnetometry, which provides realtime, high-resolution magnetic field measurements across various configurations. Additionally, we compare the previous generation of continuous wave NMR magnetometers, PT2025 and MFC3045, with the new PT2026, which employs pulsed wave techniques. The ongoing developments in the PT2026, particularly its Revision 2024, are aimed at further enhancing hardware and computational performance, with evaluations expected to be completed by the end of 2024.

Primary author: Dr SONGEON, Julien (Metrolab Technology SA)

Co-authors: Mr TINEMBART, Jacques (Metrolab Technology SA); Mr BENZ, Sébastien (Metrolab Technology SA)

Presenter: Dr SONGEON, Julien (Metrolab Technology SA)