

Redefining NMR: Portable, Dead-Time-Free, and Chip-PoweredJens Anders

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In this invited talk, Jens Anders will present the latest breakthroughs from his group in the rapidly evolving field of chip-assisted NMR. He will showcase the next generation of portable, multi-channel NMR spectrometers that bring high performance into compact, field-deployable formats, as well as dead-time-free NMR detectors powered by innovative voltage-controlled oscillator technology. The talk will also introduce portable, chip-based DNP systems, paving the way for enhanced sensitivity in mobile and resource-limited environments. Together, these advances illustrate how semiconductor technologies are redefining the limits of NMR spectroscopy—bringing laboratory-grade capabilities to the palm of your hand.