



Contribution ID: 600

Type: **Talk (preferred)**

Towards compact quantum diamond nuclear magnetic resonance spectrometers

Monday 12 December 2022 16:15 (15 minutes)

We measure NMR signals via their modulation of the NV spin-state dependent red photoluminescence intensity using a time-resolved quantum heterodyne detection scheme.

Primary author: AHMADI, Sepehr

Co-authors: CHESMAN, Anthony (CSIRO Manufacturing); SIMPSON, David; WANG, Di (University of Melbourne); WALSH, Ella; HALL, Liam (School of Chemistry, the University of Melbourne)

Presenter: AHMADI, Sepehr

Session Classification: AIP: Quantum Science and Technology

Track Classification: AIP Congress: AIP: Quantum Science and Technology