



Contribution ID: 684

Type: **Talk (preferred)**

Quantum sensing with diamond spin maser at room-temperature

Monday 12 December 2022 16:30 (15 minutes)

We present the theoretical study of diamond spin maser magnetic field sensor's limitations considering a detailed photo-physics of the spins. We also present our progress towards the experimental realization of such a sensor.

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Session Classification: AIP: Quantum Science and Technology

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