24th Australian Institute of Physics Congress



Contribution ID: 509

Type: Talk (preferred)

Optically detected spin transitions in an Er-doped whispering-gallery resonator

Tuesday 13 December 2022 11:45 (15 minutes)

We present an erbium-doped optical resonator with a quality factor of 10^8 and up to 1.2GHz of coupling to an optical transition. By probing the optical resonances we can measure the erbium's response to microwave excitation of its spin transition.

Author: TRAINOR, Luke (University of Otago)

Co-authors: KING, Gavin (University of Otago); SCHWEFEL, Harald (University of Otago); LONGDELL, Jevon (University of Otago); MA, Li (University of Otago)

Presenter: TRAINOR, Luke (University of Otago)

Session Classification: Australian and New Zealand Conference on Optics and Photonics

Track Classification: ANZCOP: ANZCOP: Quantum optics