Physics AT QUEENS COLLEGE

Colloquium Notice

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Optical Tweezer Phonon Laser

In this talk I will describe our recent theoretical work on optomechanics with levitated nanoparticles. I will address cooling and regenerative center-of-mass motion (phonon lasing) theory in relation to the experiments in the group of our collaborator A. N. Vamivakas at the University of Rochester.

[1] S. Sharma, A. Kani and M. Bhattacharya, Phys. Rev. A 105, 043505 (2022)
[2] R. M. Pettit, W. Ge, P. Kumar, D. R. L.-Martin, J. T. Schulz, L. P. Neukirch, M. Bhattacharya and A. N. Vamivakas, Nature Photonics 13, 372 (2019)

Monday
October 2, 2023
Starts at 12:15 PM
Coffee at 12:00 PM
Physics Conference Room, SB B326
This talk is accessible via **Zoom** or use
meeting ID 829 2687 2594 and **passcode 866995** to join