



Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

Seminar

Phononic Frequency Combs for Quantum Information Science

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Phononic frequency combs (PFC) are the mechanical analogs of celebrated photonic frequency combs. Through a series of experiments with mechanical devices, various physical aspects of PFC have been identified. My talk will describe the physics of phononic frequency combs and will emphasize how these could be foundational to the fields of quantum information science. My future work will be focused on the fundamental contributions leading to the convergence of phononic frequency combs and quantum information science.

Reference:

1. Ganesan, A., Do, C. and Seshia, A., 2017. Phononic frequency comb via intrinsic three-wave mixing. Physical review letters, 118(3), p.033903.

Monday, Dec 20th 2021 04:00 PM Auditorium, TIFR-H