



PHYSICS AND ASTRONOMY SPECIAL COLLOQUIA

Dr. Ajay Ram Srimath Kandada

in tv

Abstract

"Excitonic interactions in 2D semiconductors garner considerable attention, both due to their relevance in quantum optoelectronics, (S. D. Foch, J. Cortecchia, B. Petrozza, A. R. S. Kandada, et al. Phys. Rev. Lett. 120, 167401 (2018)) and their potential for quantum information processing. (S. D. Foch, J. Cortecchia, B. Petrozza, A. R. S. Kandada, et al. Phys. Rev. Lett. 120, 167401 (2018))"

- (1) Structures in Two Dimensional Hybrid Lead Halide Perovskites. Nat. Mater. 2019, DOI: 10.1038/s41568-019-0510-8
- (2) Thouin, F.; Neutzner, S.; Cortecchia, D.; Domir, M.; Petrozza, A.; Kandada, A. R. S.; et al. Stable Bound Excitons in Two Dimensional Hybrid Lead Halide Perovskites. Phys. Rev. Mater. 2019, DOI: 10.1103/PhysRevMaterials.3.011001
- (3) Thouin, F.; Chávez, D. A. V.; Quarti, C.; Cortecchia, D.; Domir, M.; Petrozza, A.; Kandada, A. R. S. Phonon Coherences Reveal the Nature of Excitons in Two Dimensional Hybrid Lead Halide Perovskites. Nat. Mater. 2019, DOI: 10.1038/s41568-019-0510-8

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3:00 p.m.