

Physics Colloquium

Raman Spectroscopy of 2D Materials

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4:00 p.m.

114 Begeman Hall

Two-dimensional (2D) atomic crystals, such as graphene, transition metal dichalcogenides (TMDs, e.g. MoS_2), and recently discovered layered ferromagnets (e.g., CrI_3) have emerged as a new generation of materials with remarkable properties in nanoelectronic and spintronic applications. Raman spectroscopy is a powerful tool in probing the lattice, charge and spin excitations in 2D materials. In this talk, I will present our Raman studies of interlayer phonons and interactions, charge density waves, and magnetic excitations in various 2D materials. Our results reveal that Raman spectroscopy is an effective tool in probing fundamental properties of 2D atomic layers.

Everyone Welcome! Refreshments Provided.