

Physics Department Colloquium Series

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Tuesday January 21, 2025
3pm - 4pm, MCH 313

Emergent Symmetries and Properties in Graphene Multilayers

Graphene is a beautiful and incredibly versatile platform for investigating emergent electronic phenomena. Confining electrons to two dimensions enhances their influence on one another, and empowers us to alter their environment with external fields and additional layers. Strategic combinations and arrangements of layered materials can yield new physics and surprising electronic properties. I will discuss how certain combinations lead to superconductivity, magnetism, and topology from materials that have none of these properties on their own, and how they can address essential questions in quantum materials research.