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WITHDRAWN Topology from emergent symmetry in graphene multilayers

Thursday, May 30, 2024 3:00 PM (30 minutes)

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 arrangements can lead to superconductivity, magnetism, and topology from layers that have none of these properties on their own, and how these phenomena manifest in transport experiments.

Keyword-1

2D materials

Keyword-2

Moiré

Keyword-3

Topology

Primary author: DE LA BARRERA, Sergio

Presenter: DE LA BARRERA, Sergio

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