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Magic moire materials with a twist

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Abstract:

I will review the mathematical analysis behind two classes of new exciting materials: Twisted bilayer graphene (TBG) and twisted semiconductors (TMDs) with an emphasis on their mathematical properties and differences. If time permits I will discuss results on these models under disorder. Joint work with Maciej Zworski, Izak Oltman, Martin Vogel, and Mengxuan Yang.