

MATHEMATICS OF MAGIC ANGLES

Speaker: Simon Becker
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Time: Mon, Jan. 5th, 09:00-10:00

Venue: Room 102, SCMS

Abstract:

I will review recent advancements in the field of twistronics. Twistronics investigates how varying the angle between layers of two-dimensional materials can significantly alter their electrical properties. Notably, twisted bilayer graphene exhibits a broad spectrum of different strongly correlated phases of matter, ranging from non-conductive to superconductive, depending on the specific twist angle between its layers. These remarkable effects are observed at particular angles known as magic angles.