

Curves and Cantilevers: Tailoring Band Gaps in Hexagonal Lattices



Speaker: Dr. Mukherjee

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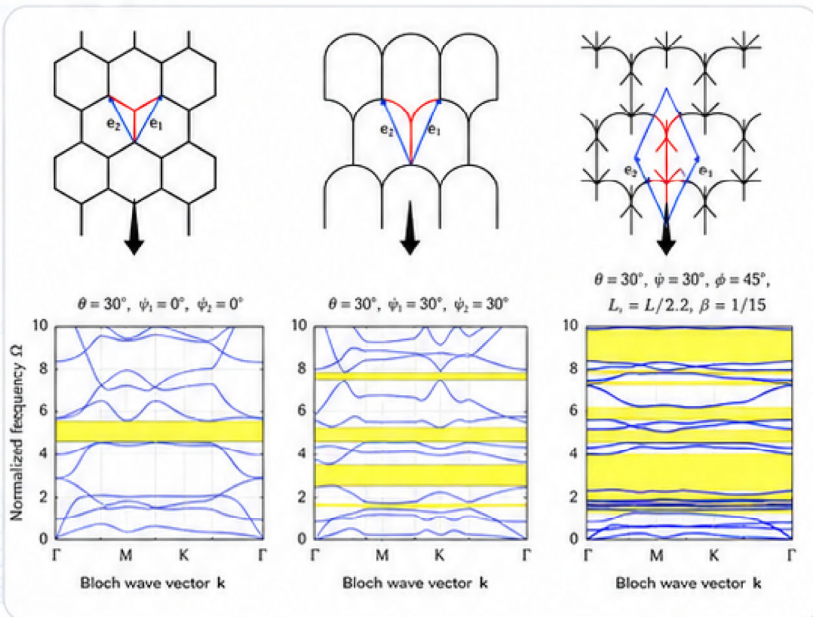


Mechanical metamaterials | Wave propagation | Composite structures



SEMINAR DESCRIPTION

This seminar presents two-dimensional hexagonal lattices combining straight and curved beam elements to tailor band-gap properties. The talk will discuss how geometry affects dispersion characteristics, wave directionality, and wave propagation, enabling new lower- and mid-frequency band gaps.



17 June 2026



10:30



45 minutes +
15 minutes Q&A



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SPEAKER BIO

Dr. Mukherjee earned his Ph.D. from the Indian Institute of Science, India, and held postdoctoral positions at Bauhaus University Weimar, Swansea University, and the Technical University of Munich. He is currently an Assistant Professor at IIT Jodhpur. His research focuses on mechanical metamaterials, wave propagation, and composite structures.



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