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TUTORIAL TOPIC:

How to fabricate and test Graphene-based devices?

TUTORIAL:

I will discuss how one fabricates 2D material based devices, including basics of lithography. Part of the talk will cover the techniques used to make layered hybrid structures as well. The second half of the talk will discuss how one measures electronic and optical properties including challenges and things to keep in mind to improve the device properties.

PROFILE:

Mandar has been a faculty member at Tata Institute, in Mumbai, since January 2006 in the Department of Condensed Matter Physics and Materials Science and is currently an associate professor. Before coming to TIFR he was a postdoctoral researcher at Harvard. For his PhD, in Physics, he worked in the broad area of spintronics at Cornell.

The current work in the lab focuses on NEMS, 2D materials and mesoscopic transport in nanowires.