



## INSTITUT DE MINERALOGIE, DE PHYSIQUE DES MATERIAUX ET DE COSMOCHIMIE

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# SÉMINAIRE

## Jeudi 12 juin, 14 h

*Salle de Conférence, 4<sup>e</sup> étage, Tour 22-23, Salle 1  
IMPMC, Université P. et M. Curie, 4, Place Jussieu, 75005 Paris*

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## PROBING 2D MATERIALS OPTICALLY: GRAPHENE AND TM DICHALCOGENIDES

Graphene and atomically thin transition metal dichalcogenides (TMDs), as exceptional two dimensional materials, possess extremely promising potential for fundamental studies and practical applications. In this talk, I will present our recent findings and understandings of 2D materials such as graphene, MoS<sub>2</sub>, TaSe<sub>2</sub> and WS<sub>2</sub>. Photons, electrons, phonons and the interaction among them are systematically investigated through various optical probes. The results presented here are highly relevant to the application of 2D materials in nano-electronics and optoelectronics and help in developing a better understanding of the optical and electrical properties of these 2D materials.