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Optical Properties of Two-Dimensional Crystals and Heterostructures

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Atomically thin two-dimensional materials, including graphene, boron nitride, metal dichalcogenides and their heterostructures, can exhibit novel optical phenomena that are distinctly different from bulk materials. In this talk, I will present our recent results on tunable optical properties in graphene/boron nitride heterostructures, where the coupling between graphene and boron nitride gives rise to new functionality. I will also discuss new optical behavior observed in metal dichalcogenide materials.