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INVITED SPEAKER: Impacts of interlayer and substrate interactions on low dimensional crystals

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Abstract content
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One- and two-dimensional crystals experience strong perturbations from their nearby environments exhibiting unique realization of new electronic structures and interaction driven states. In this talk, I will review my recent computational studies exploring possible alternations of fundamental electronic structures of low dimensional crystals under influences of stacking, external mechanical forces, and substrate screenings, etc.

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