

UCLA Department of Physics & Astronomy

COLLOQUIUM

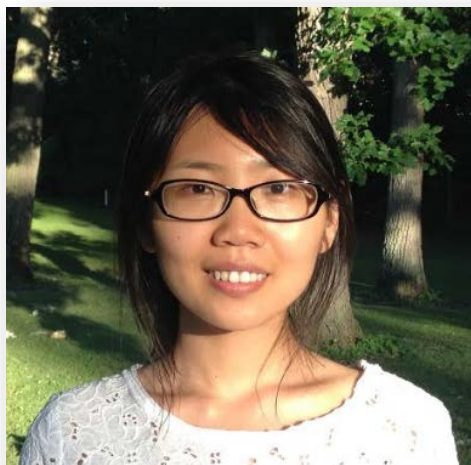
Thursday, February 24, 2022 at 4 p.m.

PAB, 1-434

Designing and probing quasi-particles in flatlands

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While electrons are the main characters of condensed matter physics, their interactions with lattices, external fields and other electrons often leads to collective behaviors that are conveniently described by quasi-particles. The two-dimensional van der Waals materials are platforms that are highly tunable by external fields and stacking order, and provide a playground for various types of quasi-particles. In this talk, I will discuss our experiments in such platforms that explores different types of quasi-particles, from electronic-polarons, plasmons to merons and paired composite fermions.

Undergraduates Welcome!