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**STRONGLY CORRELATED PHASES OF MATTER IN SEMICONDUCTOR  
MOIRÉ SUPERLATTICES**

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Moiré superlattices built on monolayer transition metal dichalcogenide (TMD) semiconductors have presented a unique platform to explore the physics of a single-band Hubbard model. In this talk, I will discuss the emergence of Mott insulating states, charge-ordered states, stripe phases and electronic liquid crystal states in this strongly correlated system.