

## The magic of moiré quantum matter

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**Pablo Jarillo-Herrero**

*Massachusetts Institute of Technology*

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The understanding of strongly-correlated quantum matter has challenged physicists for decades. The discovery three years ago of correlated phases and superconductivity in magic angle twisted bilayer graphene led to the emergence of a new materials platform to investigate strongly correlated physics, namely moiré quantum matter. These systems exhibit a plethora of quantum phases, such as correlated insulators, superconductivity, magnetism, Chern insulators, and more. In this talk I will review some of the recent advances in the field, focusing on the newest generation of moiré quantum systems, where correlated and topological physics can be studied with unprecedented tunability. I will end the talk with an outlook of some exciting directions in this emerging field.