Contribution ID: **57** Type: **Talk**

Quantum materials design: challenges and opportunities

Friday, November 25, 2022 11:45 AM (45 minutes)

Unconventional superconductivity with high critical temperatures, frustrated magnetism, spin-liquid phases or the recently discussed Kitaev phases are a few examples of exotic states in correlated quantum materials. One of the big challenges in quantum physics is the microscopic description of such materials. Moreover, being able to understand them implies the possibility of predicting compounds with desirable properties.
In this talk, I will present and discuss strategies for designing quantum materials from first principles and their connection to experimental observations.

Category

Solid State (Theory)

Author: Prof. VALENTI, Roser (Goethe University Frankfurt)

Presenter: Prof. VALENTI, Roser (Goethe University Frankfurt)

Session Classification: Keynote Physics Talks 2

Track Classification: Physics talks