Quantum Probes of Wave–like and Sub–GeV Dark Matter, from Photonics to Quantum Sensing

October 25–27, 2023
407 Jadwin Hall, PCTS, Princeton University

This three-day workshop will explore the intersection of dark matter searches, photonics, and quantum information science. The workshop will bring together theorists and experimentalists from particle phenomenology, quantum measurement, AMO, condensed matter, materials science, and chemistry. The focus will be on new methods for detecting wave-like dark matter and sub-GeV particle-like dark matter using new measurement techniques. The workshop will consist of morning presentations followed by extended group discussions, aiming to communicate emerging results and prospects among fields and close the gap between theoretical proposals and experimental applicability.

SPEAKERS:
Karl Berggren
Aaron Chou
Yonit Hochberg
Konrad Lehnert
Tongyan Lin
Priscila Rosa
Lindley Winslow
Val Zwiller

ORGANIZERS:
Carlos Blanco,
Saptarshi Chaudhuri,
Mariangela Lisanti,
Ani Prabhu

FREE, BUT REQUIRED REGISTRATION IS ON LINE:
https://forms.gle/rJLCqg5k4E18GTFxA