



# DARK MATTER SEARCHES WITH CELESTIAL BODIES

REBECCA LEANE

SLAC/STANFORD KIPAC

Stars and planets can be ideal playgrounds to discover dark matter. In this talk, I will review a range of dark matter searches using celestial objects, including exoplanets, solar-system planets, and our Sun. I will also discuss a new framework to describe what happens when dark matter is captured inside these objects, and the implications for dark matter search strategies, including new sensitivities with quantum devices on Earth.

01 NOV 2022

3:30 PM EDT

BELL ROOM (ERP 103)