



Wright
Laboratory

Early Career Scientist Seminar



Marco David
UC Berkeley

Tuesday, October 6 at 2:00 p.m.
WLE 102

100 Quantum Theorems: A Benchmark for Formalizing Physics



Machine-checked proofs are fast becoming the gold standard in mathematics, with interactive theorem provers like Lean powering everything from DeepMind's IMO medal to OpenAI's Navier–Stokes formalization—yet quantum theory remains largely untouched by these tools. In this talk, Marco David presents joint work with Jens Palsberg on a curated benchmark of 100 quantum theorems designed to gamify the formal verification of quantum theory and quantum computing.

Sponsored by Yale Wright Laboratory, Yale Department of Physics, and Yale University.