



Department of Physics and Astronomy
FALL 2023 Colloquium Series

“The Top Frontier of the Higgs Physics”

Dr. Haichen Wang

UC Berkeley

The fundamental constituents of our Universe are elementary particles. Recent experimental progress at CERN's Large Hadron Collider (LHC) allows us to characterize the interaction between two uniquely interesting elementary particles, namely, the Higgs boson and the top quark. This is a new frontier at the LHC and can shed light on profound questions in physics, such as why there is such a huge imbalance between matter and antimatter, what the nature of dark matter is, and why gravity is so much weaker than the electroweak interaction. I will discuss the current experimental landscape of Higgs-top interplay at the LHC.

Thursday, October 19, 2023

4:00 - 5:20PM

MND1015

Open & Free to all students, faculty and public