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Host: Ramsey-Musolf

String Theory and Our Real World

Department of Physics Colloquium

In this talk I'll describe how string theory is exciting because it can address most or all of the questions we hope to understand about the quarks and leptons that make up our world, the forces that form our world, cosmology, CP violation, and more. I'll explain why string theory is testable in basically the same ways as the rest of physics, and why much of what is written about that is misleading. String theory is already or soon being tested in several ways, including dark matter, LHC physics, neutrino physics, cosmological history, and more, from work in the increasingly active subfield "string phenomenology".

