

LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS (LEPP) Theory Seminar



Marcus Berg Karlstad String Loops in Curved Space

I will outline a few motivations in particle physics and cosmology to study string loop corrections in gauge and gravitational backgrounds. One technical motivation is that they provide a generalization of and improved understanding of Feynman loop diagrams in gauge and gravitational fields. This may also be of some interest for field theories of topological superconductors. I review some recent work by others, particularly in Anti-de-Sitter space, and give highlights of some of my work in progress with physicists and with mathematicians.

Friday, March 1, 2019 12:30pm 401 Physical Sciences Building

LEPP, the Cornell University Laboratory for Elementary-Particle Physics, and CHESS resources have merged and a new lab, (CLASSE), has formed. LEPP's primary source of support is the National Science Foundation. Visit us at www.lepp.cornell.edu