Laboratory for Elementary Particle Physics (LEPP)

Theory Seminar

Bounds on New Physics from Electric Dipole Moments

Electric dipole moments are extremely sensitive probes for additional sources of CP violation in new physics models. The multi-scale problem of relating the high precision measurements with neutrons, atoms and molecules to fundamental parameters can be approached model-independently to a large extent; however, care must be taken to include the uncertainties from especially nuclear and QCD calculations properly. The resulting bounds on fundamental parameters are illustrated in the context of Two-Higgs-Doublet models.

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Wednesday, October 18th, 2017

2:00pm

401 Physical Sciences Building