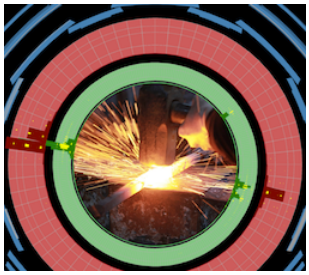

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750 GeV Diphoton Resonance and Electric Dipole Moments

Tuesday 10 May 2016 18:15 (15 minutes)

In this talk, I will introduce the minimal toy model that explains recently observed 750GeV diphoton excess and its implication for the electric dipole moments of the neutron and electron. The model assumes that excess is due to a spin zero particle which couples to photons and gluons through the loops of massive vector-like fermions. In the plausible parameter space of the model, we can find electric dipole moments of the neutron and electron that are comparable to current experimental bounds. I will also provide the realistic model that contains composite pseudo-Nambu-Goldstone boson as the 750GeV resonance and its correspondence to previous toy model.

Summary

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