

Testing the properties of the QED vacuum, a review.

Tuesday, 24 March 2015 09:30 (45 minutes)

In this talk I will review past and current experiments on the QED vacuum. The fluctuations of QFT vacuum are one of the hallmarks of field theory, and they carry with them a host of important implications. Photon-photon scattering – in all its incarnations – is a powerful tool to study these fluctuations in QED. Moreover, interactions of photons with yet-to-be detected pseudoscalar particles can provide precious hints of physics beyond the Standard Model, and lead to interesting reflections on the quantum nature of light.

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