

Bootstrapping effective field theories of photons

Wednesday, 27 September 2023 11:50 (20 minutes)

We use general assumptions of the unknown UV theory to constrain the IR physics of photons. Specifically, we can consider causality and unitarity of the S-matrix to set up a bootstrap problem. By solving it with numerical optimisation methods, we obtain the allowed EFT coefficients which are consistent with a unitary and causal UV completion.

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Session Classification: Topical Talks