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True axions beyond the canonical band

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In this talk, I will review the different mechanisms that have been proposed in the literature in order to solve the strong CP problem with axions that lie outside the canonical QCD axion band. The general strategy involves either enhancing/suppressing a specific Wilson coefficient among the axion couplings to SM fields, or increasing/lowering the axion mass for a given axion scale. Given the strong experimental axion program, the most relevant phenomenological consequences of such attempts will be discussed, together with possible strategies to experimentally disentangle the different possibilities.

Speaker

Pablo Quílez

Primary author: QUILEZ, PABLO (DESY)

Presenter: QUILEZ, PABLO (DESY)

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