

# Testing the far UV with an axion coupled to photons

*Thursday 13 February 2025 10:15 (45 minutes)*

After a brief introduction to axions in string theory, discussing their quality and the origin of their couplings, I will review recent progress in understanding their properties in different string theories from type IIB to heterotic string theories. I will show how the discovery of a light ALP —that is, above the QCD line — is incompatible with unification and heterotic string theory. Finally I will discuss our limitations and the questions that remain open.

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**Session Classification:** Talks