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## The Ubiquitous Axion in Quantum Gravity

*Wednesday, 29 September 2021 10:00 (40 minutes)*

Axion-like fields appear in many string theory constructions. I will discuss a proposed explanation for why they are so ubiquitous: they play a crucial role in eliminating would-be global symmetries from the theory. This perspective also gives a new perspective on axion interactions with magnetic monopoles. I will explain how magnetic monopole loops give rise to an axion potential.

**Presenter:** REECE, Matthew

**Session Classification:** Wednesday AM

**Track Classification:** Invited