





COLLOQUIUM

Revealing Structure in the Axiverse

speaker LIAM MCALLISTER (Cornell University, USA)



Abstract I will describe progress in understanding the axions that arise in string theory. Advances in computational geometry have allowed us to construct, for the first time, theories of hundreds axions of in explicit compactifications of strina theory. We find patterns therein that differ strongly from what one finds in the literature that extrapolates simple from geometries supporting small numbers axions. will of discuss implications for

strong CP problem, black hole superradiance, and axion-photon couplings.

29 March 2023

3.30 pm (CET)