

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Discrete Abelian Gauge Symmetries and Axions

Friday 5 December 2014 18:00 (30 minutes)

As recently observed, discrete Abelian symmetries can remain as remnants in the low-energy effective action of string compactifications with massive $U(1)$ symmetries. As I will discuss in this talk, the Peccei-Quinn symmetry arises naturally in this way in D-brane models with the QCD axion as an open string excitation and several other (invisible) axions from both the open and closed string sectors.

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