

The Many Faces of Singletons

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Abstract

Singletons are those unitary irreducible modules of the Poincaré or (anti) de Sitter group that can be lifted to unitary modules of the conformal group. They appear in a wide variety of areas of theoretical physics: AdS/CFT correspondence, higher-spin multiplets, infinite-component Majorana equations, etc. Singletons are reviewed through a list of their many equivalent definitions in order to approach them from various perspectives.