

Progress and prospects of lattice supersymmetry

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Supersymmetry plays prominent roles in modern theoretical physics, as a tool to improve our understanding of quantum field theory, as an ingredient in many new physics models, and as a means to study quantum gravity via holographic duality. Lattice investigations of supersymmetric field theories have a long history but often struggle due to the interplay of supersymmetry with the discretization of spacetime. I will review several areas in which these difficulties have been overcome, allowing for significant progress in recent years, and discuss important challenges that still remain.

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