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Higher Symmetry in Particle Physics

Thursday 20 July 2023 09:00 (30 minutes)

Higher symmetries in quantum field theory are novel concepts of symmetry that involve extended operators such as Wilson lines in gauge theory. We briefly review this formalism and then discuss recent applications to particle physics, including an organizing principle for unification models and instanton effects. Finally, we discuss how higher symmetry violation can lead to simple models of Dirac neutrinos with natural masses that are exponentially small.

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