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Title: On some of the Mathematics in Garrett Lisi’s "E(8) Theory of Everything".

Abstract

A physicist, Garrett Lisi, has published a highly controversial but fascinating paper purporting to go beyond the standard model in that it unifies all four forces of nature by using as gauge group the exceptional Lie group E(8).

My talk, strictly mathematical, will be about an elaboration of the mathematics of E(8) which Lisi relies on to construct his theory.