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On the classification of 6d supergravities

Thursday, 30 November 2023 16:00 (15 minutes)

Requiring the absence of gauge and gravitational anomalies places very strong constraints on six-dimensional chiral theories. For 6d supergravity with minimal supersymmetry there is a natural way to identify consistent theories with cliques in a certain multigraph which encodes the pair-wise compatibility of simple, irreducible theories. Leveraging ideas from graph theory, I will discuss the classification of these theories for any number of tensor multiplets and largely unconstrained semi-simple gauge group and hypermultiplet representations.

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