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Richard Eager: Elliptic genera of pure gauge theories in two dimensions

Sunday, May 23, 2021 9:00 AM (50 minutes)

Abstract: I will explain how to compute the elliptic genera of (2,2) supersymmetric gauge theories in two dimensions with gauge group G/Gamma (for G semisimple and simply-connected, Gamma a subgroup of the center of G) with various discrete theta angles. The two new ingredients are a systematic study of the moduli space of flat G/Gamma connections on the torus and an efficient organization of the supersymmetric localization computation using the classification of nilpotent orbits. The elliptic genera are consistent with expectations from decomposition of two-dimensional theories with finite global one-form symmetries and with computations of supersymmetry breaking for some discrete theta angles in pure gauge theories.