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Title: Quiver algorithms and geometry

Abstract: Supersymmetric QFTs with 8 supercharges in various dimensions can often be analyzed using combinatorial data encoded in quivers. I will review how various quiver algorithms, developed over the past few years, have led to a better understanding of various phenomena, including the stratification of the moduli space of vacua, the Higgs mechanism, and RG flows. These can often be given a geometric interpretation, but some challenges remain. This will be a review talk, focusing on the big picture rather than on technical details. Based on 2209.15016, 2301.05239, 2302.03698 and upcoming work with M. Sperling and Z. Zhong.