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Moduli of doubled quiver representations

A quiver is a finite directed graph. In the early 90's Nakajima used representations of doubled quivers to construct a large class of hyperkähler varieties now known as Nakajima Quiver varieties. These varieties have been the focus of much recent research due to their incredible structure, and their appearance in representation theory and mathematical physics. In this talk I will give a brief introduction to Nakajima quiver varieties and the properties they possess.