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Hasse Diagrams for Higgs Branches

Thursday, 19 December 2019 09:00 (30 minutes)

The partial order of partial Higgsings of a gauge theory with 8 supercharges matches the partial order of inclusion of closures of the symplectic leaves that make up its Higgs branch. The Hasse diagram is a graphical depiction of a partial ordering and as such a central tool in studying Moduli spaces of quantum field theories with 8 supercharges. We will use brane constructions in Type II String Theory to identify the Higgs branch of various theories in different dimensions and derive their Hasse diagram. How the moduli space and it's Hasse diagram change at a conformal fixed point of the theory will be discussed.

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