



Contribution ID: 211

Type: Talk

Higgs and Coulomb Branch Localization in Quiver Quantum Mechanics

Thursday, July 7, 2016 2:20 PM (20 minutes)

We derive the localization formula for $calN = 4$ supersymmetric quiver quantum mechanics in the Higgs and Coulomb branch. The partition function (index) is exactly evaluated and it is shown that the path integral is localized at fixed points, which are given by solutions to the BRST equations combined with D-term and F-term conditions. We give some examples of the quiver theory and classifications of their fixed points. We also discuss a gravitational description of the localization in the Coulomb branch.

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Session Classification: Formal Field and String Theory

Track Classification: Formal Field and String Theory