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G₂ instantons in twisted M-theory

Tuesday, 24 August 2021 21:00 (30 minutes)

Computing Donaldson-Thomas partition function of a G_2 manifold has been a long standing problem. The key step for the problem is to understand the G_2 instanton moduli space. I will discuss a string theory way to study the G_2 instanton moduli space and explain how to compute the instanton partition function for a certain G_2 manifold. An important insight comes from the twisted M-theory on the G_2 manifold. This talk is based on a work in progress with Michele del Zotto and Yehao Zhou.

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