

SPEAKER: Bernardo Zan

TITLE: **What does the sphere free energy know?**

DATE: 12 Jan 2022, 15:00

PLACE: P4C

ABSTRACT

I will consider the sphere free energy of three dimensional theories with $N=2$ supersymmetry and a holographic dual. I will discuss which bulk interaction terms are possible and show that the sphere free energy is independent on many of them. Then, I will focus on prepotential interactions, on which the sphere free energy does depend. I will show that the sphere free energy is very closely related to the prepotential in several theories, and give a conjecture for the general case. Based on 2107.12382 and 2112.06931.

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