

# **Alejandra Castro: Siegel Modular Forms and Black Hole Entropy**

*Monday, May 15, 2017 2:00 PM (1 hour)*

In this talk I will present statistical systems, or more precisely counting formulas, that have the potential to account for the entropy of an extremal black hole. The goal is to capture and translate the robustness in gravity into data of the quantum system. On the microscopic side, which is the main emphasis of this talk, I want to illustrate not only how one can design generating functions with the desired features, but also present a procedure to extract the entropy systematically.