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National Institute for  
Theoretical and  
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## NITheP Colloquium

Monday, 24 May 2021, 16h00

Prof Daniel Harlow | Massachusetts Institute of Technology (MIT)

### “Symmetry in Field theory and Gravity”



#### ABSTRACT

It has long been suspected that the consistency of quantum gravity puts constraints on what kinds of symmetries are possible in nature. In this talk I will review some of these conjectures, and then explain how they can be derived in the special case of negative cosmological constant and also more generally given certain assumptions about the quantum mechanics of black holes.

#### BIOGRAPHY

Daniel was born in Cincinnati and grew up in Boston and Chicago.

He obtained a BA in physics and mathematics from Columbia University in 2006 and a PhD in

physics from Stanford University in 2012. He was a postdoctoral fellow at Princeton and Harvard before joining MIT in July 2017.

Daniel is an avid hiker and pianist.

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