



PHYSICS AND ASTRONOMY SEMINAR

Dr. Sašo Grozdanov

Massachusetts Institute of Technology

“Generalised global symmetries in field theory and holography”

Abstract

ns. From the point of view of effective field theory, I will first present a
ive reformulation of magnetohydrodynamics, which is a theory of low-
n plasmas. I will then discuss our construction of holographic duals to
alised global symmetries. Of particular focus will be a five-dimensional
dynamical two-form gauge field, which is dual to a field theory in which
nics captures the dynamics of its infra-red limit. In the final part of this
neralised global symmetries are a powerful tool for constructing theories
ects even in the absence of known microscopic origins of such symmetries.
ill use the theory of viscoelastic states and formulate it both in effective
ography.

Thursday, February 22, 2018

10:30 a.m.

MacLaurin Building

Room D010