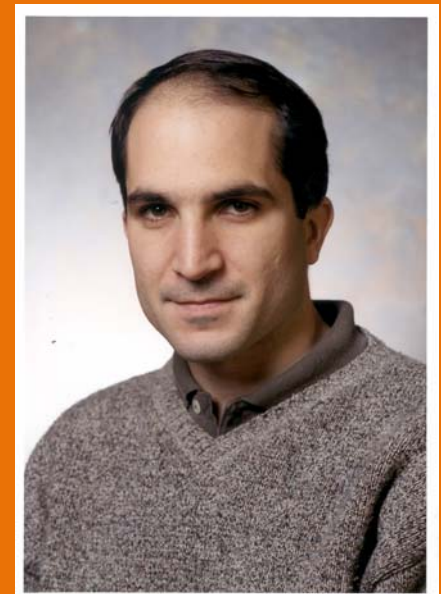


Physics Colloquium
Monday February 6th, 2006
4:15 PM 428 Pupin Hall
Professor Juan Maldacena
of IAS

**“QCD, strings and black holes:
The Large N limit of field theories and
gravity.”**

We study Yang Mills theories with a large number of colors. In this limit the theory becomes a theory of strings. We describe the string theory associated to the most supersymmetric version of Yang Mills theory. These strings live in a ten dimensional curved space. This leads to interesting connections between quantum gravity and QCD-like theories. For example, confinement is related to black holes.



Host: Professor Greene