

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## INFINITESIMAL GEOMETRIC LANGLANDS

**Thel Seraphim & Philsang Yoo**  
Northwestern

Mar 25, 2015, 4:00 – 5:00pm  
Math/Computer Science, Room148  
111 Cummington Street, Boston

Tea: 3:45pm in Room MCS 144

**Abstract:** Deformation theory is a fundamental language describing infinitesimal behavior of a given object. An important theorem in the subject is the equivalence between the category of formal moduli problems and that of differential graded Lie algebras. Using a version of this equivalence, one can translate geometric information into algebra and vice versa.

The first half of the talk will be an introduction to the fundamental theorem in its simplest form through several examples. The second will focus on a possible application to understanding a variant of the Abelian geometric Langlands program from a rather different angle.

See <http://math.bu.edu/research/geom/seminar.html> or contact Ryan Grady [regrady@math.bu.edu](mailto:regrady@math.bu.edu) for more information.