

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## TILING, SYZ AND MODULAR FORMS

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September 23, 2015, 4:00 – 5:00pm  
Math/Computer Science, Room 148  
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

**Abstract:** I will introduce a class of Calabi-Yau manifolds associated to the polytope tilings. They partially compactify (an open subset of) the toric Calabi-Yau manifolds associated to the tiles. Then I will discuss how the Hori-Vafa toric mirror symmetry generalizes in this case, revealing interesting connections to modular forms. This also provides an insight into mirror symmetry for the varieties of general type. My talk is based on a joint work with Siu-Cheong Lau.

See <http://math.bu.edu/research/geom/seminar.html> or contact Siu Cheong Lau [lau@math.bu.edu](mailto:lau@math.bu.edu) for more information.