

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

HIGGS BUNDLES AND SYZ GEOMETRY

Charles Ouyang
UMass Amherst

MCS B31, Oct 12, 2022, 4-5pm

Tea: 3:45pm in Room B24

Abstract: Special Lagrangian 3-torus fibrations over a 3 dimensional base play an important role in mirror symmetry and the SYZ conjecture. In this talk, we discuss the construction via Higgs bundles of an infinite family of semi-flat Calabi-Yau metrics on special Lagrangian torus bundles over an open ball in \mathbb{R}^3 with a Y-vertex deleted. This is joint work with S. Heller and F. Pedit.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yu-Shen Lin (yslin@bu.edu) or Brian Williams (bwill22@bu.edu) for more information.