SOME NEW SOLUTIONS TO THE
STROMINGER SYSTEM

Teng Fei
Department of Mathematics
Massachusetts Institute of Technology

December 9, 2015, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: The Strominger system is a system of PDEs derived by Strominger in the study of compactification of heterotic strings with torsion. It can be thought of as a generalization of Ricci-flat metrics on non-Kaehler Calabi-Yau 3-folds. We present some new solutions to the Strominger system on a class of noncompact Calabi-Yau 3-folds constructed by twistor technique. These manifolds include the resolved conifold \( \text{Tot}(\mathcal{O}(-1, -1) \to \mathbb{P}^1) \) as a special case.

See http://math.bu.edu/research/geom/seminar.html or contact Siu Cheong Lau lau@math.bu.edu for more information.