

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

**MORSE SUPERPOTENTIAL OF LOG
CALABI-YAU SURFACES AND MIRROR
SYMMETRY**

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CCDS 365, Mar 6, 2024, 4-5pm

Tea: 3:45pm in Room 365

Abstract: In mirror symmetry, the critical points of a Landau-Ginzburg mirror superpotentials play a crucial role. After a brief review of the construction of superpotentials for log Calabi-Yau surfaces, we will explore how tropical geometric methods can effectively identify the precise locations of critical points and determine their degeneracy. Using these tools, we will demonstrate the proof of closed-string mirror symmetry for log Calabi-Yau surfaces

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.