

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## MIRROR SYMMETRY AND THE SYZ BASE

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Oct 27, 2021, **4-5pm** MCS B31  
Tea: 3:45pm in Room B24

**Abstract:** The Gross-Siebert program suggests that mirror symmetry is mediated by the combinatorial data of a dual pair of integral affine manifolds with singularities and polyhedral decomposition. Much is now understood about the passage from the combinatorial data to complex spaces "near the large complex structure limit" - a toric degeneration and its smoothing. In this talk, we discuss the mirror procedure for moving from the combinatorial data to symplectic spaces "near the large volume limit" - a Weinstein symplectic manifold and its compactification – including a mirror symmetry result at the limit and work in progress producing the compactification and deforming the mirror symmetry equivalence.

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