

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

HOLOMORPHIC LOCALIZATION AND THE FUTAKI INVARIANT OF KÄHLER BLOW-UPS

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November 29, 2017, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: The Calabi-Futaki invariant obstructs constant scalar curvature Kähler metrics on a compact Kähler manifold. We will survey Bott’s holomorphic localization technique and its application to calculating the Futaki invariant. General formulas are known in “non-degenerate” localization situations, but degenerate localization naturally arises when considering blow-ups. I will discuss my work on degenerate localization and the Futaki invariant of Kähler blow-ups.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yoosik Kim (yoosik@bu.edu) or Siu-Cheong Lau (lau@math.bu.edu) for more information.