GLOBAL DIMENSION FUNCTION ON STABILITY MANIFOLDS

Speaker: Dongjian Wu

Shanghai Institute for Mathematics and Interdisciplinary Sciences

Time:Wed., Sep. 23rd, 16:00-17:30

Venue:Room 542, SCMS

Abstract: The global dimension function, introduced by Ikeda – Qiu, is a real-valued function on the manifold of Bridgeland stability conditions, measuring the maximal phase gap across which nonzero morphisms exist between semistable objects. In this talk, I will introduce this function and explain how the positivity of the canonical divisor relates to the reachability of its infimum. This is based on joint work with Nantao Zhang.