

Speaker: Jingang Xiong (Beijing Normal University)

Title: Kerr Black Hole Uniqueness and Mass-Angular Momentum Inequalities

Abstract: I will present recent joint work with Qing Han, Marcus Khuri, and Gilbert Weinstein on stationary, axisymmetric spacetimes with multiple black holes, studied via singular harmonic maps. The focus will be on our latest proof of Kerr uniqueness in this setting, which, together with our earlier results, establishes the conjectured mass-angular momentum inequalities.