

UBC Number Theory Seminar: January 12, 2022

Speaker: Heidi Goodson (Brooklyn College, CUNY)

Title: Sato-Tate Groups in Dimension Greater than 3

Abstract: The focus of this talk is on Sato-Tate groups of abelian varieties – compact groups predicted to determine the limiting distributions of local zeta functions. In recent years, complete classifications of Sato-Tate groups in dimensions 1, 2, and 3 have been given, but there are obstacles to providing classifications in higher dimensions. In this talk, I will describe my recent work on families of higher dimensional Jacobian varieties. This work is partly joint with Melissa Emory.