

UBC Number Theory Seminar: March 2, 2022

Speaker: Liyang Yang (Princeton)

Title: Relative Trace Formula and Average Central L -values on $U(3) \times U(2)$

Abstract: In this talk, we will introduce an explicit relative trace formula to study central L -values on $U(3) \times U(2)$. In conjunction with computations of local factors in Ichino-Ikeda formulas for Bessel periods, we obtain some important properties of these central L -values over certain family: the first moment, nonvanishing and subconvexity in the level aspect. This is joint work with Philippe Michel and Dinakar Ramakrishnan.