



P-ADIC L-FUNCTIONS FOR SIEGEL MODULAR FORMS

Dr. Zheng Liu

McGill University

Time: 14:00-15:00 pm., Mon, March 6, 2017

Venue: Room 2201, East Main Guanghua Tower, Handan Campus

Abstract: We construct the p -adic standard L -functions for ordinary families of Hecke eigen-systems of the symplectic group $\mathrm{Sp}(2n)=\mathbb{Q}$ using the doubling method. We explain the strategy for choosing the local sections of the Siegel Eisenstein series on the doubling group $\mathrm{Sp}(4n)=\mathbb{Q}$, which allows p -adic interpolation and guarantees nonvanishing of the archimedean zeta integrals, and the corresponding local zeta integrals at p give the modified Euler factors at p as predicted by Coates for p -adic L -functions.