p-ADIC *L*-FUNCTIONS FOR GL(n)

A. RAGHURAM

In the early 70's Mazur and Swinnerton-Dyer constructed *p*-adic *L*-functions attached to an elliptic curve. This was generalized to attaching *p*-adic *L*-functions for cusp forms on GL(2) by Manin and others. Later this construction was generalized in two different directions: for cusp forms on $GL(n) \times GL(n-1)$ by C.-G.Schmidt and his collaborators and students, and in another direction for cusp forms on GL(2n) which admit a Shalika model by Ash and Ginzburg. This mini-course of four lectures will be a survey of such constructions of *p*-adic *L*-functions.

References

- [1] Mazur, B., Swinnerton-Dyer, P.: Arithmetic of Weil curves. Invent. Math. 25, 1–61 (1974).
- Manin, Y.: Non-archimedean integration and Jacquet-Langlands p-adic L-functions. Russian Math. Surveys 31, 5–57 (1976).
- [3] Kazhdan, D., Mazur, B., and Schmidt, C.-G.: Relative modular symbols and Rankin-Selberg convolutions. J. Reine Angew. Math., 519, 97-141 (2000).
- [4] Ash, A., and Ginzburg, D.: p-adic L-functions for GL(2n). Invent. Math. 116, 27-73 (1994).