1056-22-117

Luis Alberto Lomeli^{*} (llomeli@math.uiowa.edu), Department of Mathematics, The University of Iowa, 15 MacLean Hall, Iowa City, IA 52242. On the Langlands-Shahidi method for the classical groups in non-zero characteristic and applications. Preliminary report.

Let F be a non-archimedean local field of positive characteristic and let G be either a split classical group or a quasisplit unitary group. Fix a Borel subgroup of G and let P = MN be a standard parabolic subgroup with Levi M. The Langlands-Shahidi method is developed over global function fields in order to understand L-functions and root numbers arising from generic representations of M(F). It is then possible to obtain applications including an extension to characteristic p of Shahidi's proof of Langlands' conjecture on the normalization of intertwining operators as well as his result on complementary series. (Received July 28, 2009)