

*Department of Mathematics,
University of California, San Diego*

Representation Theory Seminar

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University of Iowa

The Langlands-Shahidi Method for the Split Classical Groups over Function Fields and Functoriality

Abstract:

The Langlands-Shahidi method over a global function field will be presented for the split classical groups. We will highlight the difficulties that arise in positive characteristic with local-global arguments. Important applications to functoriality for generic representations of the split classical groups to an appropriate $GL(N)$ are then obtained when the Langlands-Shahidi method is used together with a converse of Cogdell and Piatetski-Shapiro. Finally, we will mention how to go from the weak functorial lift to the strong lift. This has an important application to the Ramanujan conjecture, due to the fact that it is a theorem of Lafforgue for $GL(N)$.

Host: Wee Teck Gan

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2:30 PM

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