

Séminaire Groupes Réductifs et Formes Automorphes

Le 6 mars 2017 à 10h30 (PRG)

Estimates for logarithmic derivatives of intertwining operators.

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Résumé : In the study of asymptotic problems with Arthur's trace formula, one needs good bounds on the contribution of the continuous spectrum in order to isolate the discrete contribution. For example, the limit multiplicity property for the discrete spectrum of congruence subgroups can be established when suitable bounds on the logarithmic derivatives of global intertwining operators are known. The task can be split into two parts : control of the global normalizing factors associated to the intertwining operators, which are closely connected to automorphic L-functions, and control of the local normalized intertwining operators. Both problems have been solved in a number of cases, namely for inner forms of $GL(n)$ and $SL(n)$, for the exceptional group G_2 , and for quasi-split classical groups (in the latter case under a technical restriction regarding the local problem). This is joint work with Erez Lapid.