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Multiplicity in restricting small representations. (English) Zbl 07488523


Summary: We give a geometric criterion for the bounded multiplicity property of “small” infinite-dimensional representations of real reductive Lie groups in both induction and restrictions.

In particular, for a reductive symmetric pair $(G, H)$, we determine the reductive subgroups $G'$ having the property that any irreducible $H$-distinguished admissible representations of $G$ are of bounded multiplicity when restricted to $G'$.

MSC:

22E46 Semisimple Lie groups and their representations
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods
53D50 Geometric quantization
58J42 Noncommutative global analysis, noncommutative residues
53C50 Global differential geometry of Lorentz manifolds, manifolds with indefinite metrics

Keywords:
branching law; multiplicity; reductive group; symmetric pair; visible action; spherical variety

Full Text: DOI Link

References:

[10] T. Kobayashi, A generalized Cartan decomposition for the double coset space $\langle (U(n_1) \times U(n_2) \times U(n_3)) \rangle \backslash U(n)$, J. Math. Soc. Japan 59 (2007), no. 3, 669-691. · Zbl 1124.22003
Reference List:


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