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Unitary Principal Series of Split Real Groups

We present some recent progress in determining the unitary (minimal) principal series representations of split (odd) orthogonal groups, and the genuine unitary principal series of the metaplectic group. In particular, we assert that there is a natural injection of these two sets of parameters into the (known, due to work of Barbasch) set of data parameterizing the spherical unitary dual of certain other split real groups. We present some evidence to suggest that these injections are, in fact, bijections.

This talk is based on joint work in progress with Alessandra Pantano and Susana Salamanca-Riba.