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*Automorphism-invariant representations of real reductive groups*

There is a well-established classification of the irreducible representations of a real reductive group in terms of discrete-series representations and their related data. Given an group automorphism, it is natural to wonder whether one can classify the irreducible representations which are invariant under the automorphism in a similar manner. We shall provide such a classification in the case of split groups and give an indication towards applications and future generalizations.