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Title: Restricting representations to a reductive subgroup.

Abstract: Let G be a reductive subgroup of a reductive group G'. We are interested to the irreducible representation $V(\lambda)$ of G which occurs as subrepresentation of a given irreducible representation $V(\lambda')$ of G'. More precisely, we consider the convex cone C generated by the pairs (λ, λ') as above. In fact, these cones have numerous interpretations and a rich history. Here, we will explain how Geometric Invariant Theory allows to give a (almost) minimal list of linear inequalities which characterizes C.