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Restricting representations to a reductive subgroup

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 us to give an almost minimal list of linear inequalities which characterizes C .