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Bounded Multiplicity Branching for Symmetric Pairs

We prove that any simply connected non-compact semisimple Lie group $G$ admits an infinite-dimensional irreducible representation $\Pi$ with bounded multiplicity property of the restriction $\Pi|_{G'}$ for all symmetric pairs $(G, G')$. We also discuss which irreducible representations $\Pi$ satisfy the bounded multiplicity property.

Keywords: Branching problem, symmetric pair, reductive group, visible action, spherical variety, multiplicity, minimal representation.

MSC: 22E46; 22E45, 53C35, 32M15, 53C15.