

© 2023 Heldermann Verlag
Journal of Lie Theory 33 (2023) 305–328

T. Kobayashi

Graduate School of Mathematical Sciences, The University of Tokyo, Japan, Japan
toshi@ms.u-tokyo.ac.jp

Bounded Multiplicity Branching for Symmetric Pairs

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