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Yoshiki Oshima* (yoshiki.oshima@ipmu.jp). *Discrete branching laws of Zuckerman's derived functor modules.*

The branching law tells how a given representation of a group decomposes when restricted to a subgroup. The branching laws for infinite dimensional representations of real reductive Lie groups are very complicated and far from being understood in general. However, there are nice classes for the detailed study of branching laws introduced by Kobayashi as “discretely decomposable restrictions”. In this talk, we discuss the discrete decomposability of restrictions and give explicit branching laws of Zuckerman's derived functor modules $A_{\mathfrak{q}}(\lambda)$ in this framework by using \mathcal{D} -modules on the flag variety. (Received February 09, 2014)