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Benjamin L Harris* (benjaminlharris@outlook.com), Department of Mathematics, Oklahoma State University, Stillwater, OK 74078. *On the Asymptotics of Plancherel Formulas for Reductive Homogeneous Spaces.*

Let G be a real, reductive algebraic group, and let X be a homogeneous space for G with an invariant measure. We give an asymptotic result on the occurrence of tempered representations in the decomposition of $L^2(X)$ into irreducibles. In particular, we find a large number of spaces X for which harmonic analysis on X “asymptotically looks like” harmonic analysis on G .

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