A Paley-Wiener theorem for real reductive groups

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Introduction

Let G be a reductive Lie group with maximal compact subgroup K. The Paley-Wiener problem is to characterize the image of $C_c^\infty(G)$ under Fourier transform. It turns out to be more natural to look at the K finite functions in $C_c^\infty(G)$. This space, which we denote

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