

Meeting: 1001, Evanston, Illinois, SS 7A, Special Session on Geometric Partial Differential Equations

1001-35-317 **Antonio C Sa Barreto*** (sabarre@math.purdue.edu), Department of Mathematics Purdue University, 150 N. University St, West Lafayette, IN 47907. *Support Theorems For Generalizations of Radon Transforms and Inverse Problems.*

We will discuss support theorems for the radiation field on asymptotically Euclidean manifolds. In Euclidean spaces, the radiation field of a function coincides with its Lax and Phillips transform, which is based on the Radon transform. (Received August 30, 2004)