Meeting: 1007, Santa Barbara, California, SS 8A, Special Session on Geometry and Physics

1007-58-112 Rafe Mazzeo\* (mazzeo@math.stanford.edu), Department of Mathematics, Stanford University, Stanford, CA 94305. Elliptic operators on locally symmetric spaces.

I will discuss joint work with Andras Vasy concerning the fine structure of the resolvent of the Laplacian on locally symmetric spaces of arbitrary rank. I will also discuss some applications to scattering theory and to some nonlinear geometric problems. (Received February 12, 2005)