Meeting: 1004, Bowling Green, Kentucky, SS 1A, Special Session on Numerical Analysis, Approximation, and Computational Complexity: Interdisciplinary Aspects

1004-31-247 **D. P. Hardin*** (doug.hardin@vanderbilt.edu), Math Department, Vanderbilt University, Nashville, TN 37240, **E. B. Saff** (esaff@math.vanderbilt.edu), Department of Mathematics, Vanderbilt University, Nashville, TN 37240, and **H. Stahl** (HerbertStahl@aol.com), FB II Mathematik/Physik/Chemie, Luxemburger Str. 10, D-13353, Berlin, Germany. *The support of the logarithmic equilibrium measure on revolutionary sets.* Preliminary report.

We investigate properties of the support of the equilibrium measure for the logarithmic potential on sets of revolution in Euclidean 3-space. In particular, we show that the support is contained in the 'outer' radial boundary of the set. (Received January 25, 2005)