



John RYAN (ryan@uark.edu), Department of Mathematics, University of Arkansas, Fayetteville, AR 72701, USA, *Large Function Theory of Some Conformally Flat Manifolds.*

ABSTRACT. We shall introduce function theory associated to Dirac and Laplace operators over special examples of conformally flat manifolds. They include spheres, cylinders and the n -torus. Hardy spaces associated to Lipschitz surfaces and aspects of Calderon-Zygmund theory will be presented in this setting following classical ideas developed in the euclidean setting by Li, McIntosh, Mitrea and Semmes amongst others.