

Meeting: 1003, Atlanta, Georgia, SS 33A, AMS Special Session on Topics in Geometric Function Theory, I

1003-30-580 **Susan G Staples*** (s.staples@tcu.edu), TCU Box 298900, Department of Mathematics, Fort Worth, TX 76129. *L^p-Averaging Domains in Homogeneous Spaces.*

We define L^p -Averaging domains in spaces of homogeneous type endowed with an intrinsic metric. We characterize these domains in terms of the quasihyperbolic metric and prove that Boman chain domains are L^p -Averaging. (Received September 23, 2004)