

Meeting: 1006, Lubbock, Texas, SS 1A, Special Session on Topology of Continua

1006-54-79 **B. Dale Daniel*** (daniel@math.lamar.edu), Lamar University, Department of Mathematics,
Box 10047, Beaumont, TX 77707-0047. *Metrically Connected Spaces.*

There has been recent interest in separably connected spaces - those spaces that have the property that each pair of points of the space is contained in some connected separable subspace. Previous study has been carried out primarily with a view toward applications in mathematical economics. A related idea of B. Pearson and J. Simone has proven useful in attacking certain questions in the study of non-metric continua. It therefore seems somewhat natural to conduct a study of separably connected spaces from a purely topological viewpoint, and to study those spaces that are metrically connected - those spaces that have the property that each pair of points of the space is contained in some connected metrizable subspace. In particular, we investigate the role of these properties in the Hahn-Mazurkiewicz Problem in the class of continua. (Received February 07, 2005)