

Meeting: 1004, Bowling Green, Kentucky, SS 8A, Special Session on Topology, Convergence, and Order, in Honor of Darrell Kent

1004-54-229 **Homeira Pajoohesh*** (hp1@csmail.ucc.ie). *Partial metrics and metrics with a viewpoint.*

A partial metric on a set is a metric except in that the distance from a point to itself need not be zero. This notion is designed to extend metric concepts to Scott topologies as used in computing, but acts very differently from that of metric, in particular, yielding non-Hausdorff topologies. The talk will show that a partial metric on a set X can be represented by a metric over X , together with a base point in X . Thus we show that a partial metric is essentially a metric together with a skewed view of that space from the base point. (Received January 25, 2005)