

1125-VU-2567 **E. T. Brown*** (brownet@jmu.edu), James Madison University, Department of Mathematics and Statistics, MSC 1911, Harrisonburg, VA 22807. *Partial Metrics and Pathological Topologies*.

Partial metrics are a generalization of metrics which allow for non-zero self-distances. They arise naturally in computing, making them a comparatively intuitive topic for undergraduates. Topologies generated by partial metrics are T0 but do not as a rule satisfy other separation axioms.

In this talk we will discuss some pathological topologies which arise naturally in the context of partial metrics, and comment on the opportunities these provide for undergraduate exploration and/or research. (Received September 20, 2016)