

1106-VN-1112 **Marc J Besson*** (bessonm@dickinson.edu), 159 PO Box 1773, Carlisle, PA 17013. *T_r – span of Directed Wheel Graphs.*

This talk covers the results of research into the span of T-colored directed wheel graphs. T-colorings were first introduced by Hale in his 1980 paper on the frequency assignment problem, and are a generalization of proper vertex graph colorings. We extend graph T-Colorings to digraph T-Colorings, and investigate the optimal span of T-Colored wheel digraphs, which are digraphs whose underlying graph is a wheel graph. When T-coloring using the T-set T_r , we prove general bounds for a large class of wheel graphs, as well as determine the specific values for the T-span and optimal colorings of a subset of directed wheel graphs. (Received September 10, 2014)