

1116-VI-2897 **Ehssan Khanmohammadi*** (ehssan@fandm.edu) and **Keivan Hassani Monfared**. *A Structured Inverse Eigenvalue Problem for Infinite Matrices*. Preliminary report.

In their 2013 paper [Linear Algebra Appl. 438 (2013) 4348–4358] Hassani Monfared and Shader proved that for a given set of n distinct real numbers Λ and a given graph G on n vertices, there exists a symmetric matrix whose graph is G and its spectrum is Λ . In this talk we show analogous results hold when the set Λ and the graph G are infinite. (Received September 22, 2015)