1146-05-190   **Daniela Ferrero*** (`dferrero@txstate.edu`), 601 University Dr, San Marcos, TX 78666. *Zero forcing in iterated line digraphs.*

Zero forcing is a propagation process on a graph, or digraph, defined in linear algebra to provide a bound for the minimum rank problem. Independently, zero forcing was introduced in physics, computer science and network science, areas where line digraphs are frequently used as models.

The focus of this talk is on regular iterated line digraphs. We will show that regular iterated line digraphs present optimal minimum rank/maximum nullity and zero forcing number, and conclude the talk with some recent results for the propagation time in regular iterated line digraphs. (Received January 21, 2019)