1112-05-660 **Jason Williford*** (jwillif1@uwyo.edu), University of Wyoming, Department of Mathematics, 1000 E. University Ave., Laramie, WY 82072. *Nonexistence Conditions for Directed Strongly-Regular Graphs.*

A directed strongly-regular graph with parameters (v, k, t, λ, μ) is a regular digraph where all out-degrees and in-degrees are k, each vertex is in t 2-cycles, satisfying the following: if there is an arc from x to y then there are λ directed 2-paths from x to y, and if there is no arc from x to y then there are μ directed 2-paths from x to y. Similar to strongly-regular graphs, there are many parameter sets for which the question of existence/nonexistence is open. In this talk we will survey the known nonexistence conditions, and give a couple of new conditions which rule out certain parameter sets. (Received August 11, 2015)