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Regina, SK S4S0A2, Canada. *On the eigenvalues of acyclic matrices.*

In this talk, we will present some recent work concerning the maximum nullity of acyclic matrices with a prescribed number of negative eigenvalues. Particular interest is paid to the case of one negative eigenvalue, where characterizations of the optimal matrices attaining the largest nullity will be shown. As a by-product cut-vertex type inequalities along with a new derivation of the maximum nullity for such matrices will also be demonstrated. (Received September 25, 2017)