Localizations of spectra and pseudospectra of matrix polynomials

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Abstract

his talk will cover some recent results on Geršgorin-type localizations for matrix polynomials. Two approaches will be considered, one using generalizations of known standard eigenvalue localization techniques directly on matrix polynomials, and the other using technique of block H-matrices on the adequate linearizations of a given polynomial eigenvalue problem. Results will be compared and presented on problems arising in engineering.