
MICHAEL CAVERS, University of Calgary

Allow Problems Concerning Spectral Properties of Patterns

Let $S \subseteq \{0, +, -, +_0, -_0, *, \#\}$ be a set of symbols, where $+$ (resp. $-$, $+_0$ and $-_0$) denotes a positive (resp. negative, nonnegative and nonpositive) real number, and $*$ (resp. $\#$) denotes a nonzero (resp. ambiguous) real number. An S -pattern is a matrix with entries in S . In particular, a $\{0, +, -\}$ -pattern is a sign pattern and $\{0, *\}$ -pattern is a zero-nonzero pattern. In this talk, we will discuss various allow problems concerning spectral properties of S -patterns.