Spectral and perturbation theory for definitizable operators

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One of Heinz's most important contributions to operator theory in Krein spaces is the notion of definitizable self-adjoint operators introduced in his Habilitation thesis from 1965. The aim of this talk is to provide a brief introduction to spectral and perturbation theory of this class of operators and to highlight some of Heinz's main results in this area. A few more recent developments and typical applications to indefinite Sturm-Liouville operators will be discussed as well.