

Generalized Oscillation Theory for Canonical Differential Systems on Hybrid Time Domains

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Abstract

We will present the development of the notion of a generalized focal point and its multiplicity for matrix-valued solutions of canonical differential systems on continuous, discrete, and arbitrary hybrid time domains (time scales). Such a notion leads to proper Sturm separation theorems, both in the local and global sense. The main results were obtained in a joint work with Peter Šepitka (Masaryk University) and Vera Zeidan (Michigan State University).

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