



MAFIA - the seminar you can't refuse

Canonical systems, comparison results, and the essential spectrum

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CTU in Prague

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Abstract: Canonical systems and oscillation theory for canonical systems will be introduced. Some spectral properties of diagonal and nondiagonal canonical systems will be compared from the point of view of oscillation theory. Bounds on the bottom of the essential spectrum of a diagonal system in terms of the asymptotics of the coefficient function will be discussed. These will be combined with a comparison result to obtain a criterion for a general canonical system to have purely discrete spectrum.