

# Asymptotic properties of dynamic pantograph equation on time scales

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The talk presents the notion of a scalar pantograph equation on time scales and it describes some asymptotic properties of its solutions. We illustrate the results on continuous and discrete time scales. In particular, the introduced approach (utilizing extended backward jump operator) enables the joint investigation of stability properties of the exact equations and their numerical discretizations. The talk is based on a joined work with J. Čermák and M. Urbánek (see [1]).

[1] Čermák, J., Kundrát, P., Urbánek, M., Delay equations on times scales: Essentials and asymptotics of the solutions, *J. Differ. Equ. Appl.* 14(6) (2008), 567–580.