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Abstracts of Short Communications and Posters

Section:

9. Ordinary Differential Equations and Dynamical Systems

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Oscillatory solutions of functional equations
The functional equation

$$Q_0(t)x(t) + Q_1(t)x(g(t)) + \ldots + Q_{m+1}x(g^{m+1}(t)) = 0, \quad m \geq 1,$$

where $Q_i : I \to R$ $(i = 0, 1, \ldots, m+1)$, $I \subset R_+ = [0, \infty)$ and $g : I \to I$ are given functions is considered. Sufficient conditions of this equation are given. Part of these results is joint work with W. Nowakowska.