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Existence of mild solutions on semiinfinite interval for first order differential equation with nonlocal condition

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Abstract: In this paper we investigate the existence of mild solutions defined on a semiinfinite interval for initial value problems for a differential equation with a nonlocal condition. The results is based on the Schauder-Tychonoff fixed point theorem and rely on a priori bounds on solutions.

Keywords: initial value problems, mild solution, semiinfinite interval, nonlocal condition, fixed point

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