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*On  $\omega$ -limit sets of nonautonomous differential equations*

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**Abstract:** In this paper the  $\omega$ -limit behaviour of trajectories of ordinary differential equations is studied by methods of an axiomatic theory of solution spaces. We prove, under very general assumptions, semi-invariance of  $\omega$ -limit sets and a Poincaré-Bendixon type theorem.

**Keywords:**  $\omega$ -limit sets, stationary points, the Poincaré-Bendixon theorem

**AMS Subject Classification:** Primary 34C05; Secondary 34C11