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*The C stability of slow manifolds for a system of singularly perturbed evolution equations*

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**Abstract:** In this paper we investigate the singular limiting behavior of slow invariant manifolds for a system of singularly perturbed evolution equations in Banach spaces. The aim is to prove the C stability of invariant manifolds with respect to small values of the singular parameter.

**Keywords:** singularly perturbed evolution equations, C stability of inertial manifolds

**AMS Subject Classification:** 35C30, 35B25, 34E15, 35B40, 35L15