Convergence in Almost Periodic Cooperative Systems with a First Integral

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Abstract. This paper is to investigate the asymptotic dynamics in almost periodic cooperative systems with a first integral. By appealing to the theory of skew-product semiflows we establish the asymptotic almost periodicity of bounded solutions to such systems, which extends the existing convergence results for time independent and periodic cooperative systems with a first integral and proves a conjecture of B. Tang, Y. Kuang and H. Smith in *SIAM J. Math. Anal.*, 24(1993), 1331-1339.

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