

**ON THE GRADIENT STRUCTURE OF A NON-AUTONOMOUS  
CHAFEE-INFANTE LIKE PROBLEM**

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ABSTRACT. In this work we prove that some non-autonomous scalar one dimensional semi-linear parabolic problems have an associated skew-product semigroup with gradient structure similar to that observed for the autonomous Chafee–Infante problem. The aim is to exhibit a non-autonomous problem for which the asymptotic dynamics can be fairly well described. The tools involved are symmetry, invariance, comparison and the lap-number. This is a joint work with R. Broche (UFLA-Brazil) and J. Valero (UMH-Spain).

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