Kočergin, A. V. [Kochergin, Andrey Vasilyevich]
The absence of mixing in special flows over a rotation of the circle and in flows on a two-dimensional torus. (Russian)

Let \( \{S_t\} \) be a special flow over a rotation of the circle by an irrational angle and a function \( f(x), x \in S^1 \), having bounded variation. Then there is no mixing in the flow \( \{S_t\} \).

Let \( \{R_t\} \) be a flow generated by a differential system \( dx/dt = A(x, y), \ dy/dt = B(x, y) \) and having no closed cycles. If the right-hand sides \( A \) and \( B \) of the system satisfy Lipschitz conditions and \( A^2 + B^2 > 0 \) then there is no mixing in the flow \( \{R_t\} \). [This article has appeared in English translation [Soviet Math. Dokl. 13 (1972), 949–952].]