## A nonhomogenizable linear transport equation in two dimensions\*

## Roberto Peirone

## ${\bf Abstract}$

I give an example of a nonhomogenizable linear transport equation with periodic data in the two-dimensional case. The corresponding function must vanish somewhere. The problem can be seen as a dynamical system problem, related to the notion of the rotation set. This example completes previous results.

 $<sup>^{*}</sup>$ oral communication.