LIMIT SETS AND GLOBAL DYNAMIC FOR 2-D DIVERGENCE-FREE VECTOR FIELDS

HABIB MARZOUGUI

Abstract. We study the global structure of the general case of divergence-free vector fields regular or not, on compact surfaces with or without boundary, which extends those of T. Ma and S. Wang result in [1] stated for the regular divergence-free vector fields case.

References

[1] T. Ma, S. Wang, *Global structure of 2-D incompressible Flows*, Discrete Contin. Dynam. Systems, **7** (2001), 431–445.

Habib Marzougui, University of Carthage, Faculty of Science of Bizerte, Department of Mathematics, Jarzouna. 7021. Tunisia.
E-mail address: habib.marzougui@fsb.rnu.tn; hmarzoug@ictp.it