

NONEXISTENCE OF ULTRADIFFERENTIABLE PERIODIC SOLUTIONS TO VECTOR FIELDS OF TUBE TYPE

RAFAEL BORRO GONZALEZ

ABSTRACT. We show the nonexistence of periodic solutions to vector fields of tube type in the presence of a disconnected sublevel set. We may conclude that there is no globally solvable vector field of tube type so far away from the Nirenberg and Treves condition (P).

REFERENCES

- [1] R. B. Gonzalez. Existence and regularity of ultradifferentiable periodic solutions to certain vector fields. *arXiv*, DOI 10.48550/arXiv.2312.03822, 2023.

UNIVERSIDADE ESTADUAL DE MARINGÁ
Email address: `rbgonzalez@uem.br`