



UNIVERSIDADE FEDERAL DE ALAGOAS  
PROGRAMA DE PÓS-GRADUAÇÃO EM  
MATEMÁTICA



**Global regularity and solvability of linear differential operators on compact manifolds**

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**Resumo:** We will discuss some results, old and new, on global properties of differential operators on compact manifolds: solvability, hypoellipticity and related properties, both in the smooth and the analytic setup, as well as the relationships among them. I will also show a few recent results of mine about operators on Lie groups (which generalize some results of Greenfield and Wallach on the torus) and also operators defined on spaces subject to more general group actions (in collaboration with Igor A. Ferra (UFABC) and Luis F. Ragnette (UFSCar)).

**Data:** 21/04/2020

**Horário:** 17:00

**Local:** Sala da Web Conferência RNP

**Link:** <https://conferenciaweb.rnp.br/webconf/renan-18>