

# TEMPLE UNIVERSITY

Department of Mathematics

## Analysis Seminar

Zoom meeting

Monday, April 18 2022, 2:30 p.m.

*Global solvability of differential operators on compact manifolds.*

by Luis Fernando Ragognette

Abstract: In collaboration with Gabriel Araújo (ICMC-USP) and Igor A. Ferra (Federal Univ. of ABC), we studied global solvability of operators on compact manifolds.

The goals of this talk are to discuss how a weak notion of global hypoellipticity implies global solvability and also to give necessary and sufficient conditions for global solvability of a class of operators of type sum of squares defined on a product compact manifolds.