

# TEMPLE UNIVERSITY

Department of Mathematics

## Analysis Seminar

Zoom meeting

Monday, November 8 2021, 2:30 p.m.

*Uniqueness of the  $C^*$  norm in strict  
deformation quantization*

by Severino Toscano do Rêgo Melo

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Abstract: Rieffel's algebra of pseudodifferential operators, introduced in the context of deformation quantization, will be described from the point of view of somebody who is familiar with pseudodifferential operators. Old results about the characterization of pseudodifferential operators as bounded operators with a smooth orbit under the action of the Heisenberg group will also be explained. Finally I will report on a recent joint paper with Cabral and Forger, in which we prove the uniqueness of the  $C^*$  norm on Rieffel's algebra.