

# TEMPLE UNIVERSITY

Department of Mathematics

## Analysis Seminar

Zoom meeting

Monday November 9, 2020, 2:30 p.m.

*Weighted Sobolev regularity of Bergman  
projection on symmetrized bidisk*

by Yuan Yuan

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**Abstract:** The regularity of Bergman projection is one of the classical problems in several complex variables. Some  $L^p$  and Sobolev regularities on some domains with nonsmooth boundary (e.g. Hartogs triangle, quotient domains) have been studied intensively recently. The symmetrized bidisk is another interesting model of non-smooth domains. In this talk, I will discuss the regularity of the Bergman projection on the weighted Sobolev space on the symmetrized bidisk. This is a joint work with Chen and Jin.