

Texas State Topology Seminar

Tuesday, 2017, October 17, 12:30-1:50 p.m., in ENC (HPB) 143

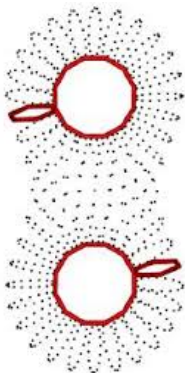
Speaker: Will Grilliette

Topic: *Normed Operator Ideals*

ABSTRACT

The notion of an ideal of a category arises in abstract algebra from the study of representations. However, specializing this notion to the category of Banach spaces gives rise to the study of normed operator ideals. Normed operator ideals produce different norms on families of continuous operators and have deep connections to the various norms on the tensor product.

This talk will focus on the entanglement between normed operator ideals and normed tensor products, particularly the construction of the nuclear and integral operators. These relationships culminate in contractive natural transformations from a tensor product bifunctor to the corresponding ideal.



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