

ANALYSIS SEMINAR

DILATIONS OF KERNELS VALUED IN CONTINUOUS MAPPINGS BETWEEN PRE-LOCALLY C*-ALGEBRAS

By

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Abstract: In the 2004 article Type I Product Systems of Hilbert Modules Barreto et al. define the notion of a completely positive semidefinite kernel valued in the bounded mappings between pre-C*-algebras and prove a dilation theorem for such kernels, which is a useful result tool in proving many other results and also it generalizes Paschke's dilation theorem.

In this talk we will state and prove a version of their theorem in the larger category of locally C*-algebras. Applications will be discussed as time permits.

Date: December 11, 2018 <u>Time:</u> 16:00 <u>Place:</u> SA141 Mathematics Seminar Room

* Tea and cookies will be served before the talk. All are most cordially invited.