UNIVERSITY OF HOUSTON
DEPARTMENT OF MATHEMATICS

Analysis Seminar

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Operator system crossed products

1:00 pm in 646 PGH
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Abstract

There is a wealth of research on crossed products of C*-algebras given by actions of (locally compact) groups on C*-algebras by *-isomorphisms. In recent years, a study of crossed products of operator algebras has been initiated by Katsoulis and Ramsey, partially as an approach to the Hao-Ng isomorphism problem. In this talk, we'll explore the theory of crossed products of operator systems (that is, self-adjoint unital subspaces of C*-algebras) by discrete groups, where the group action is given by complete order isomorphisms. We'll discuss how the canonical crossed products behave with respect to hyperrigidity and certain C*-covers. Using Kavruk's nuclearity-detecting operator system, we will also resolve (in the negative) two of the Katsoulis-Ramsey problems on operator algebra crossed products. (Joint work with Se-Jin Kim.)