

# Probabilistic Operator Algebra Seminar

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Title: *Cyclic Boolean and Monotone Independence.*

Noncommutative probability spaces are usually equipped with states, i.e. unital linear functionals. In some situations it is convenient to simultaneously consider a (possibly unbounded) trace as well, for example in connection with graph products or certain random matrix models with discrete limiting distributions discovered recently by Collins, Hasebe and Sakuma. We present some combinatorial and analytic aspects of the emerging notions of cyclic Boolean and monotone independence.