

Probabilistic Operator Algebra Seminar

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October 3 **Serban Belinschi and Mireille Capitaine,**
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Title: *Strong convergence of tensor products of independent G.U.E. matrices.*

Given tuples of properly normalized independent $N \times N$ G. U. E. matrices $(X_N^{(1)}, \dots, X_N^{(r)})$ and $(Y_N^{(1)}, \dots, Y_N^{(s)})$, we proved that the tuple $(X_N^{(1)} \otimes I_N, \dots, X_N^{(r)} \otimes I_N, I_N \otimes Y_N^{(1)}, \dots, I_N \otimes Y_N^{(s)})$ of $N^2 \times N^2$ random matrices converges strongly as N tends to infinity. We will present the key steps and ideas of the proof.