

Probabilistic Operator Algebra Seminar

Organizer: Dan-Virgil Voiculescu

June 1 **Tatiana Shulman**, IMPAN Warsaw

Title: *On almost commuting matrices*

It is an old problem to investigate which relations for families of commuting matrices are stable under small permutations, or in other words, which commutative C^* -algebras $C(X)$ are stable. Extending the works of Davidson, Eilers-Loring-Pedersen and Voiculescu on almost commuting matrices, we will obtain, for X of finite covering dimension, a complete characterization of when $C(X)$ is stable. We also will discuss applications. Joint work with Dominic Enders.