Probabilistic Operator Algebra Seminar

Organizer: Dan-Virgil Voiculescu

October 2 **Kunnawalkam Elayavalli Srivatsav**, UCSD

Title: *Structure of free group factors*

I will discuss joint work with Hayes and Jekel where we show various structural properties of the free group factors using the recent random matrix solution to the Peterson Thom conjecture. These results include the resolution to the coarseness conjecture independently due to the first-named author and Popa, a generalization of Ozawa-Popa's celebrated strong solidity result using vastly more general versions of the normalizer (and in an ultraproduct setting), a dichotomy result for intertwining of maximal amenable subalgebras of interpolated free group factors, as well as application to ultraproduct embeddings of nonamenable subalgebras of interpolated free group factors.