

Probabilistic Operator Algebra Seminar

Organizer: Dan-Virgil Voiculescu

October 19 **Ching Wei Ho**, Indiana University Bloomington

Title: *The Brown measure of variables with semicircular imaginary part.*

In this talk, I will talk about the Brown measure of the sum of an arbitrary self-adjoint variable and an imaginary multiple of the semicircular variable, where the self-adjoint variable and semicircular variable are free. I will also talk about the Brown measure of an arbitrary selfadjoint variable and an elliptic variable. These Brown measures are absolutely continuous, the support and density are closely related to a subordination function of a certain free additive convolution with a semicircular variable. This talk will include a joint work with Brian Hall.