

Probabilistic Operator Algebra Seminar

Organizer: Dan-Virgil Voiculescu

June 29 **Joshua Keneda**, South Plains College, Levelland Texas

Title: *Cocycle Conjugacy of Free Bogolyubov Actions of \mathbb{R}*

We will consider a family of actions (defined using Voiculescu's free Gaussian functor) on the free group factor $L(\mathbb{F}_\infty)$, which we classify up to cocycle conjugacy. Our strategy is partially adapted from a related classification paper of Houdayer, Shlyakhtenko, and Vaes. Awareness of Popa's intertwining-by-bimodules techniques and Shlyakhtenko's operator-valued semicircular systems may be useful, but familiarity with any of the above topics won't be assumed. Based on joint work with Dima Shlyakhtenko arXiv:2006.00361.