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A New Application of Free Probability Theory: Data Privacy

Many applications of free probability theory have emerged from random matrix theory problems. In this talk we will discuss a new problem connected to the area of data privacy. In addition to our recent developments, we will discuss a conjecture concerning the free multiplicative convolution of a Marchenko-Pastur and a Bernoulli distributions.

– This is joint work with S. Asoodeh, J. Mingo, S. Belinschi, F. Alajaji, and T. Linder.