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Free infinite divisibility for the Fuss-Catalan distributions

## Abstract

Fuss-Catalan numbers appear as numbers of generalized noncrossing partitions of Coxeter groups. This concept is a generalization of the Catalan numbers. There are probability measures (called the Fuss-Catalan distributions) whose moments are Fuss-Catalan numbers. We talk about freely infinitely divisibility for the Fuss-Catalan distributions. This work is a joint-work with Wojciech Mlotkowski and Noriyoshi Sakuma.