

# Axel Saenz

**Title:** Geometric/Bernoulli Growth Process from Schur-Processes

**Abstract:** This talk is based on a collaboration with Leo Petrov (UVA) and Alisa Knizel (Columbia). We introduce a discrete time and space TASEP model with mixed geometric and Bernoulli steps and probabilities given by Schur-symmetric functions. We use determinantal formulas to prove the limit shape for the model and find the Tracy-Widom distribution under the proper scaling. We are also able to extend these results (in distribution) to other models outside the scope of Schur processes by applying some recent result from Leo's work.