Maximal fluctuations of convex hull interfaces - Part 2

Pierre Calka

(*University of Rouen Normandy*)

This talk is a follow-up of J. Yukich's talk on maximal fluctuations for the convex hull of a Poisson input inside a smooth convex body. In particular, we will focus on its so-called longitudinal fluctuation, namely the maximal facet area along the boundary of the random polytope, and show a convergence to the Gumbel distribution as well as a precise description of the shape and location of the facet with maximal area.

The talk is based on a joint work with J. Yukich.