

Stochastic and Integral Geometry II

Exercise Sheet 11

Please hand in your solutions at the end of the lecture on **Tuesday, July 10th**.

Exercise 1

Let X be a Poisson-Voronoi mosaic in \mathbb{R}^3 and L a plane. Show that $X \cap L$ is not a Poisson-Voronoi mosaic in the plane.

Exercise 2

Let X be a Poisson-Voronoi mosaic in \mathbb{R}^2 . Show by a suitable construction, that the original Poisson process \tilde{X} can be reconstructed from the mosaic X .