



UNIVERSITY OF SYDNEY

SCHOOL OF MATHEMATICS AND STATISTICS

Statistics Seminar

Friday, 10 November, 2.00pm

Venue: TBA

The Boolean model of stochastic geometry

Professor Günter Last
University of Karlsruhe (Germany)

Abstract

The Boolean model is defined as the union of random compact sets (grains), whose centres (germs) and shapes are forming an independently marked homogeneous Poisson process. We will first explain some of the basic properties of this fundamental model of stochastic geometry. Then we will continue with discussing several versions of contact distribution functions. Particular emphasis is placed on the role of convexity of the typical grain. Finally we will indicate how empirical counterparts of contact distribution functions can be used in the statistical analysis of the Boolean model.

Enquiries about the Statistics Seminar should be directed to
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