

# Unité de probabilités

## Séminaires programmés

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mai  
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## Conférence en probabilité

Mercredi 28 mai à 10h15  
[MA 12](#), EPFL, Ecublens

**[Prof. Daniel Ueltschi](#)**

**[University of Warwick](#)**

### **Spatial random permutations and infinite cycles**

#### **Résumé**

I will introduce the model of "spatial" random permutations, where permutations are weighed according to the point locations. The main question is about the occurrence of infinite cycles. As we will see, infinite cycles occur for densities larger than a "critical density", which is given by an exact expression.

I will also discuss the relation between the model of spatial permutations and the quantum Bose gas, and the Bose-Einstein condensation. This is a collaboration with Volker Betz.

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