

## **Hammersley Process on the circle**

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### **Abstract :**

Hammersley's process (HP) is an interacting particle system which is introduced firstly in 1972 by Hammersley J.M. and developed in recent years, we've already have some interesting results on the line.

In this talk, I will introduce principally the specific HP on the circle and show you some basic speed theorems of the particles and second class particles which start from the Uniform distribution in this model; moreover, one result of the longest way will be shown by constructing two related interacting systems and the almost sure convergence of the second class particle.