



## Mathematics and CS Seminar

# On Branching Random Walks in the transient regime

**Amine Asselah**

UPEC

Host: M. Beiglböck, N. Berestycki, L. Erdős, J. Maas, F. Toninelli, E. Schertzer

We consider branching random walks on the Euclidean lattice in dimensions five and higher. We plan to discuss a relationship between the equilibrium measure and Green's function, in the form of an approximate last passage decomposition. We will also discuss tail estimates of the local times for the branching random walk. Finally, we present a Spitzer's type formula relating Capacity and Branching Capacity, as well as a list of open problems. This is joint work with Perla Sousi and Bruno Schapira. Organiser:

**Wednesday, May 10, 2023 03:45pm - 04:45pm**

Mondi 2 (I01.01.008), Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.