

## Chilean Probability Seminar

**Speaker:** Oren Louidor (Technion, Israel)

**Title:** A limit law for the most favorite point of a simple random walk on a regular tree.

**Abstract:** We consider a continuous-time random walk on a regular tree of finite depth and study its favorite points among the leaf vertices. We prove that, for the walk started from a leaf vertex and stopped upon hitting the root, as the depth of the tree tends to infinity the maximal time spent at any leaf converges, under suitable scaling and centering, to a randomly-shifted Gumbel law. The random shift is characterized using a derivative-martingale-like object associated with the square-root local-time process on the tree. Joint work with Marek Biskup (UCLA).

El enlace para conectarse al seminario por Zoom es:

Unirse a la reunión Zoom

<https://reuna.zoom.us/j/84521834914?pwd=OTZ6Y0NWM3pYTGtTbEt3c0luTG96UT09>

ID de reunión: 845 2183 4914

Código de acceso: 997973

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La charla será en formato híbrido, llevándose a cabo de manera presencial en la Pontificia Universidad Católica de Chile y transmitiéndose en simultáneo por Zoom.

**Lugar:** Sala de Multiusos 1, Primer Piso, Facultad de Matemáticas (Pontificia Universidad Católica de Chile, Santiago).

**Wednesday, December 07, 2022, 16:15 hrs (Chilean time).**

