

## AGCO Seminar

**Speaker:** Pawel Pralat, Ryerson University, Canadá.

**Title:** Semi-random process.

**Abstract:** The semi-random graph process is a single-player game that begins with an empty graph on  $n$  vertices. In each round, a vertex  $u$  is presented to the player independently and uniformly at random. The player then adaptively selects a vertex  $v$  and adds the edge  $uv$  to the graph. For a fixed monotone graph property, the objective of the player is to force the graph to satisfy this property with high probability in as few rounds as possible.

During the talk, we will focus on the following problems: a) perfect matchings, b) Hamilton cycles, c) constructing a subgraph isomorphic to an arbitrary fixed graph  $G$ . We will also consider a natural generalization of the process to  $s$ -uniform hypergraphs.

**When:** May 18, 15:00 hrs.

**Where:** <https://zoom.us/j/98780407155?pwd=MnR3dGlab2dkcU0xVFprTFRKcnptZz09>

Proyectado en directo desde la Sala de Seminario John Von Neumann, CMM, Beauchef 851, torre norte.

