Enumerating simultaneous core partitions into k distinct parts

11.05 **Hannah Burson**
(*University of Illinois at Urbana-Champaign, USA*)
Time: Monday 22.07., 15:30 - 16:00, Room HS 4

Abstract: In 2016, using a combinatorial bijection with certain abaci diagrams, Nath and Sellers enumerated $(s, ms \pm 1)$-core partitions into distinct parts. In this talk, we explain new generalizations of this theorem, with a focus on a generating polynomial that enumerates simultaneous core partitions by the number of parts.

This work is joint with Simone Sisneros-Thiry and Armin Straub.