

1154-05-2344 **Hanna Mularczyk*** (hmularczyk@college.harvard.edu). *Lattice Paths and Pattern-Avoiding Uniquely Sorted Permutations.*

This talk will dive into a fascinating natural analog between a foundational set of combinatorial objects—lattice paths—and a newer class of permutations that arise from West’s stack-sorting map—uniquely sorted permutations. Using this analog as a basis for bijections, we will enumerate several classes of pattern-avoiding uniquely sorted permutations, allowing us to prove several conjectures of Defant. (Received September 17, 2019)