

**$(q, t)$ -analogues of  $n!$  and  $(n + 1)^{n-1}$** *Saturday, 1 October 2022 15:15 (20 minutes)*

The numbers  $n!$  and  $(n+1)^{n-1}$  are ubiquitous in combinatorics. Each number counts number of permutations and parking functions, respectively. I will discuss their  $(q, t)$ -generalizations and further generalization to symmetric functions, namely the modified Macdonald polynomials  $\tilde{H}_\mu$  and  $\nabla e_n$ . Then I will discuss a recent conjecture involving these two symmetric functions. Based on joint work with Donghyun Kim and Seung Jin Lee.

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**Session Classification:** Session 4