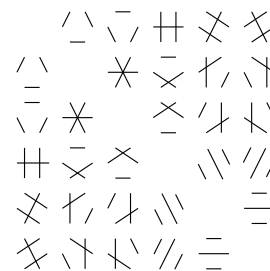


# Mathematics Seminar



## Rocky Mountain Algebraic Combinatorics Seminar

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### Horizontal-strip LLT polynomials

Foster Tom  
UC Berkley (?)

Lascoux, Leclerc, and Thibon defined a remarkable family of symmetric functions that are  $q$ -deformations of products of skew Schur functions. These LLT polynomials  $G_\lambda(x; q)$  can be indexed by a tuple  $\lambda$  of skew diagrams. When each skew diagram is a row, we define a weighted graph  $\Pi(\lambda)$ . We show that a horizontal-strip LLT polynomial is determined by this weighted graph. When  $\Pi(\lambda)$  has no triangles, we establish a combinatorial Schur expansion of  $G_\lambda(x; q)$ . We also explore a connection to extended chromatic symmetric functions.

Weber 223

4–6 pm, Friday, Dec 3, 2021

(Refreshments 3:30–4 pm)

Colorado State University

Online via Zoom

<https://zoom.us/j/95321487441?pwd=T1p4VG9pejZCekJmDFFb1BzeWpsdz09>, Meeting ID: 953 2148 7441, Passcode: 722523

4 pm, Friday, Dec 3, 2021

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This is a joint Denver U / UC Boulder / UC Denver / U of Wyoming / CSU seminar that meets biweekly.  
Anyone interested is welcome to join us at a local restaurant for dinner after the talks.



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Fort Collins, Colorado 80523