

## Pace 2023 Schedule (week 1 - 2)

Classroom: 82J12

\* = remote session (students are still required to attend in person)

### 07/03 Monday

- 8:30 - 9:45. Introductions\* (Gao, Yibo)
- 10:00 - 11:30. Dynamics on Trapezoid Poset\* (Zhang, Sylvester)
- 1:00 - 2:30. Componentwise minimal f-vector of polytopes (Xue, Lei)
- 2:30 - 4:30. Self-study exercise session.

### 07/04 Tuesday

- 9:00 - 10:30. Operators preserving real-rootedness (Wang, Xingwei)
- 10:30 - 11:30. Self-study exercise session.
- 1:00 - 1:30. Exercise presentation.
- 1:30 - 3:00. Integer partitions and related properties (Sun, Hui)
- 3:00 - 4:30. Self-study exercise session.

### 07/05 Wednesday

- Morning. Coefficients of Grothendieck polynomials (Fan, Neil)
- Afternoon. Characters of flagged Weyl modules (Guo, Long)

### 07/06 Thursday

- Morning. Schur times Schubert via the Fomin-Kirillov algebra\* (Gao, Yibo)
- Afternoon. Sage workshop (Gao, Jiyang)

### 07/07 Friday

- Morning. Quotients of Positroids (Gao, Jiyang)
- Afternoon. Combinatorics in the rational shuffle theorem (Qiu, Dun)

### 07/10 Monday

- Morning. Characteristic polynomials and Coxeter groups\* (Wang, Jiayuan)
- Afternoon. Reflection subgroups of Coxeter groups (Fu, Xiang)

### 07/11 Tuesday

- Morning. Combinatorics of  $GL_n$  Fock-Goncharov cluster varieties\* (Zhang, Sylvester)
- Afternoon. Positivity of chromatic symmetric functions of spider graphs (Wang, Guoliang)

### 07/12 Wednesday

- Morning. Linear independent products of Schur functions\* (Gao, Shiliang)
- Afternoon. Hook formulas from Murnaghan-Nakayama rules (Xiong, Rui)

### 07/13 Thursday

- Morning. Rank generating functions of upho posets\* (Gao, Yibo)