

## 102-avoiding Inversion Sequences

*Wednesday, 28 August 2024 16:00 (30 minutes)*

A sequence  $(e_1, e_2, \dots, e_n)$  is an inversion sequence if  $0 \leq e_i < i$  for all  $i = 1, \dots, n$ . We say that an inversion sequence  $e = (e_1, e_2, \dots, e_n)$  **contains** the pattern 102 if there exist some indices  $i < j < k$  such that  $e_j < e_i < e_k$ . Otherwise,  $e$  is said to **avoid** the pattern 102.

In this talk, we will construct a correspondence between the set of 2-Schröder paths without peaks and valleys ending with a diagonal step and the set of 102-avoiding inversion sequences.

This is the joint work with JiSun Huh, Sangwook Kim, and Seunghyun Seo.

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