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102-avoiding Inversion Sequences

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

A sequence $(e_1, e_2, \cdots, e_n)$ is an inversion sequences if $0 \leq e_i < i$ for all $i = 1, \ldots, n$. We say that an inversion sequences $e = (e_1, e_2, \cdots, e_n)$ \emph{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 \emph{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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