

# Increasing and decreasing chains in 0-1 matrices and RSK-like algorithms

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## **Abstract**

I shall survey recent developments on the number of fillings of cell diagrams with restrictions on their increasing and decreasing chains. The - biased - view that I shall present will emphasize the significant role of diagrammatic versions of the Robinson-Schensted(-Knuth) algorithm (due to Fomin) and of Schützenberger's jeu de taquin (due to van Leeuwen) in this context.