

## **Duality Between Coalescence Times and Exit Points in Last-Passage Percolation Models.**

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### **Abstract:**

We will prove a duality relation between coalescence times and exit points in last-passage percolation models with exponential weights. As a consequence, we will get lower bounds for coalescence times with scaling exponent  $3/2$ , and we will relate its limiting distribution with variational problems involving the Brownian motion process and the Airy<sub>2</sub> process. Reference: arXiv:1307.7769.