



## Probability Seminar

**Title:** On random regular graphs and the Kim-Vu Sandwich Conjecture

**Speaker:** Natalie Behague (Dublin City University)

**Date:** Mon 13th April 2026 at 3:00PM

**Location:** E0.32 (beside Pi restaurant)

**Abstract:** The random regular graph  $G_d(n)$  is selected uniformly at random from all  $d$ -regular graphs on  $n$  vertices. This model is a lot harder to study than the Erdős–Rényi binomial random graph  $G(n, p)$  or the Erdős–Rényi random graphs with similar edge density. A proof of this sandwich conjecture would unify many previous results. Various authors have proved weaker versions of the sandwich conjecture with incremental