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*The phase transition in the random  $d$ -process*

One of the most interesting features of Erdős-Rényi random graphs is the 'phase transition', where the global structure changes from only small components to a single giant component plus small ones.

In this talk we discuss the phase transition in the random  $d$ -process, which corresponds to a natural algorithmic model for generating random regular graphs that differs from the usual configuration model (starting with an empty graph on  $n$  vertices, the random  $d$ -process evolves by sequentially adding new random edges so that the maximum degree remains at most  $d$ ).

Based on joint works with Nick Wormald and Laura Eslava, respectively.