Asymptotic results vs. deterministic results: the case of random regular graphs

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Resumo/Abstract:
I shall discuss the relationship between asymptotic results in the probability space of random regular graphs and deterministic results in an important family of graphs, namely the graphs with large girth. This involves the analysis of probabilistic algorithms in graphs, and leads to bounds on a series of graph parameters.

This is joint work with Nick Wormald (Canada Chair of Combinatorics, University of Waterloo).