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The Isaac Newton Workshop on Zeros of Graph Polynomials

Abstract for the Combinatorics Seminar 2008 January 29

The Newton Institute's semester program on [Combinatorics and Statistical Mechanics](#) devoted last week to a workshop on [Zeros of Graph Polynomials](#). I report on what I remember:

- The multivariate approach to the dichromatic (or “Tutte”) polynomial. Specializing to the chromatic polynomial through the Potts model. Zeros and phase transitions.
- Real chromatic zeros: zero-free intervals, zero-dense intervals, unknown intervals.
- Complex chromatic zeros: limit curves for chromatic zeros of graph families and their influence on real zeros, hence phase transitions.
- And the odd misfit talks.

The full programs of the two weeks with links to abstracts are at:

- [Introductory Cross-Disciplinary Symposium](#),
- [Zeros of Graph Polynomials](#).

Links to videorecorded talks and files of slides are at:

- [Introductory Cross-Disciplinary Symposium](#),
- [Zeros of Graph Polynomials](#).

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