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4 Two Simple Models with Phase Transitions -- 4.1 Kac Model -- 4.2 Spherical Model -- 4.3 Concluding Remarks on Phase Transitions -- References -- References -- 1 Introduction -- 2 Proof of the Theorem -- References -- Israel GAFA Seminar (2002-2004) -- PIMS Thematic Programme on Asymptotic Geometric Analysis at the University of British Columbia (Summer 2002) -- Conference on Convexity and Asymptotic Theory of Normed Spaces -- Concentration Period on Measure Transportation and Geometric Inequalities -- Conference on Phenomena of Large Dimensions -- Conference on Non-commutative Phenomena and Random Matrices -- Conference on Banach Spaces -- Banach Spaces and Convex Geometric Analysis (April, 2003) -- Paris GAFA Seminar (Summer 2003) -- GAFA Session Joint Meeting of the New Zealand Mathematical Society and Israel Mathematical Union (Wellington, February 2004).

addition the volume contains papers on related aspects of Probability, classical Convexity and also Partial Differential Equations and Banach Algebras. There are also two expository papers on topics which proved to be very much related to the main topic of the seminar. One is Statistical Learning Theory and the other is Models of Statistical Physics. All the papers of this collection are original research papers.

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