1. Record Nr. UNISALENTO991002954139707536

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Titolo	Approaching the Kannan-Lovász-Simonovits and variance conjectures / David Alonso-Gutiérrez, Jesús Bastero
Pubbl/distr/stampa	Cham : Springer, 2015
ISBN	9783319132624
Descrizione fisica	x, 148 p. ; 24 cm
Collana	Lecture notes in mathematics, 0075-8434 ; 2131
Classificazione	AMS 46-02 AMS 28A AMS 46B25 AMS 52A22 AMS 60D05
Altri autori (Persone)	Bastero, Jesúsauthor
Disciplina	515.1
Soggetti	Functional analysis Geometric analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	The conjectures ; Main examples ; Relating the conjectures ; Appendix ; Index
Sommario/riassunto	Focusing on two central conjectures from the field of Asymptotic Geometric Analysis, the Kannan-Lovász-Simonovits spectral gap conjecture and the variance conjecture, these Lecture Notes present the theory in an accessible way, so that interested readers, even those who are not experts in the field, will be able to appreciate the topics treated. Employing a style suitable for professionals with little background in analysis, geometry or probability, the work goes directly to the connection between isoperimetric-type inequalities and functional inequalities, allowing readers to quickly access the core of these conjectures. In addition, four recent and important results concerning this theory are presented. The first two are theorems attributed to Eldan-Klartag and Ball-Nguyen, which relate the variance and the KLS conjectures, respectively, to the hyperplane conjecture. The remaining two present in detail the main ideas needed to prove the best known estimate for the thin-shell width given by Guédon-Milman, and an approach to Eldan?s work on the connection between the thin-shell