
Isoperimetric Inequalities In Mathematical Physics Am 27

isoperimetric inequalities and the alexandrov theorem - solving the isoperimetric problem on the sphere. we then consider discrete isoperimetric problems, which is a relatively young field dealing with isoperimetric problems on graphs. we introduce the technique of "compressions" and use it to prove harper's theorem, which solves the isoperimetric problem on the graph of the hypercube. **the isoperimetric inequality - mathematic** - it will discuss topic 4: the isoperimetric inequality. after a short introduction about the history of the isoperimetric problem which resulted in the isoperimetric inequality, we will formulate the requirements and the theorem. we will then give a geometric 'proof' by jakob steiner to show an easily comprehensible approach, **thermodynamic volumes and isoperimetric inequalities forde ...** - the isoperimetric inequalities involving the corresponding thermodynamic volumes are discussed in sec. iv. the charged de sitter black holes, their thermodynamics and isoperimetric inequalities are studied in sec. v. sec. vi displays results on compressibility and speed of sound for black hole horizons. sec. vii is devoted to the summary. **isoperimetric inequalities and applications** - isoperimetric inequalities and applications inegalit at i izoperimetrice si aplicat ii bogosel beniamin coordonator: prof. dr. bucur dorin abstract this paper presents in the beginning the existence of the optimal form for the isoperimetric inequality. based on the existence of the optimal form, two simple, elementary proofs are given. **discrete isoperimetric inequalities - ucsd mathematics** - discrete isoperimetric inequalities fan chung university of california at san diego la jolla, ca 92093-0112 1 introduction one of the earliest problems in geometry is the isoperimetric problem, which was considered by the ancient **isoperimetric inequality - arxiv** - the isoperimetric inequality, is that of stability estimates of the type $p(\epsilon) \sim \epsilon^2$; where ϵ is a measure of how far e is from a ball. such inequalities, called bonnesen-type inequalities by osserman ([30]), have been widely studied after the results by bernstein ([5]) and bonnesen ([6, 7]) in **isoperimetric inequalities for graphs, and ...** - a general method for obtaining asymptotic isoperimetric inequalities for families of graphs is developed. some of these inequalities have been applied to functional analysis, this method uses the second smallest eigenvalue of a certain matrix associated with the graph and it is the discrete version of a method used before for riemannian manifolds. **discrete isoperimetric inequalities on graphs** - isoperimetric problem on the euclidean plane helps us to better understand the topic. this paper is about discrete isoperimetric inequalities on graphs, and in particular on boolean cubes. we will be discussing both edge isoperimetric problems and vertex isoperimetric problems. but first, we must define a graph and a boolean cube. definition 1. **isoperimetric inequalities for lévy processes** - isoperimetric inequalities for lévy processes: finite dimensional distributions1 rodrigo bañuelos2 department of mathematics purdue university west lafayette, in 47907 1work with p. méndez-hernández, jfa 2010 2supported in part by nsf rodrigo bañuelos (purdue university) isoperimetric & lévy carthage, may 2010 1 / 33

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