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DIRICHLET EIGENVALUE SUMS ON TRIANGLES ARE MINIMAL FOR EQUILATERALS general domain is the Rayleigh-Faber-Krahn theorem that the fundamental

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Rayleigh Faber Krahn inequality; Remez inequality; Riesz rearrangement inequality; Schur test; Stein Strömberg theorem; Young's inequality; Combinatorics Edit.

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(i.e., the Rayleigh Faber Krahn inequality). 1930: Gabor Szeg gave the first complete proof of Poincaré's theorem. 1945:

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### **An isoperimetric inequality for the principal**

We generalize the classical Rayleigh Faber Krahn inequality to the case of the Dirichlet Laplacian with of Theorem 1.1 is the following Faber Krahn type

### **Isoperimetric monotonicity: some properties and**

The Rayleigh-Faber-Krahn Theorem. In ? 1.1, the isoperimetric inequality (3),  $X_1 = w_{OIAG}$ , can be interpreted in the following way. Since, for a disk  $D$ ,

**Arxiv:1503.08390v1 [math.fa] 29 mar 2015**

paper we also prove the Rayleigh-Faber-Krahn theorem for the integral operator  $L$

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FABER-KRAHN INEQUALITIES FOR THE ROBIN-LAPLACIAN: A FREE DISCONTINUITY APPROACH  
DORIN BUCUR AND ALESSANDRO GIACOMINI Abstract. We introduce a new method to prove the

### **Rayleigh quotient | ng qu c anh**

Lieb theorem, Rayleigh quotient  $Ng Qu c$  One well known result in this direction is the Faber-Krahn inequality which states that among all domains

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### **Pleijel's nodal domain theorem for free membranes**

is an application of the Faber-Krahn inequality Theorem 1.1 is proved under the E. Krahn. ?ber eine von Rayleigh formulierte

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Nonlinear 2-point boundary value problems Mathematics in Science and Engineering Bailey 1968 Academic Press 9780120733507,0120733501 Nonlinear Analysis

### **R. s. laugesen and b. a. siudeja arxiv:1008.1316v1**

of a general domain is the Rayleigh Faber Krahn theorem that the funda- For  $n = 1$ , the last two Conjectures are true by the Faber Krahn theorem

### **An isoperimetric inequality for a nonlinear**

We prove an isoperimetric inequality of the Rayleigh-Faber-Krahn type for a (cfr. Theorem 2 AN ISOPERIMETRIC INEQUALITY FOR A NONLINEAR

### **Faber- krahn inequalities for the**

FABER-KRAHN INEQUALITIES FOR THE ROBIN-LAPLACIAN: in the Rayleigh quotient above, Theorem 4.1 (Faber-Krahn inequality:

### **Sharp spectral bounds and perturbations in two**

Figure: Queen Dido applying the isoperimetric theorem. (Dido purchases land for the foundation of Carthage, engraving by Matth aus Merian the Elder,

### **Isoperimetric inequalities for the logarithmic**

Among other things, in this paper we also prove the Rayleigh-Faber-Krahn theorem for the integral operator  $L$

### **A faber- krahn inequality with drift - archives**

A Faber-Krahn inequality with drift the celebrated Rayleigh-Faber-Krahn inequality for the rst eigenvalue of the Theorem 1.1 For any dimension  $n$

### **Minimization problems for eigenvalues of the**

Minimization problems for eigenvalues of the Laplacian Antoine Henrot The proof relies on the same technique as the Rayleigh-Faber-Krahn Theorem with the

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The Faber Krahn inequality is related to the smallest Faber Krahn type inequality for unicyclic graphs. The Rayleigh quotient of the Laplace

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THE RAYLEIGH--FABER--KRAHN THEOREM 11 Remark3. Some growth conditions on  $F(s)$  are necessary in order to obtain a minimizing function of class  $C^2(f)$ . Indeed, consider the functional

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the result follows easily from a foundational result about real semi-algebraic sets and the Morse-Sard theorem. Rayleigh-Faber-Krahn isoperimetric

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