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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

Rayleigh quotient | ng qu c anh

Lieb theorem, Rayleigh quotient λ_1 One well known result in this direction is the Faber-Krahn inequality which states that among all domains

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

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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

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

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SYMMETRIZATION OF LEVY PROCESSES AND include the celebrated Rayleigh-Faber-Krahn inequality on the rst eigen- (see Theorem 3.4 in [15]) Z R d jyj2

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