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Somegrowthconditionson $F(s)$ arenecessaryin orderto obtaina minimizingfunction ofclass $C^2(f)$. Indeed, considerthe functional

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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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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

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

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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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