Seminário de Geometria

ON A CONJECTURE OF ASHBAUGH AND BENGURIA ABOUT LOWER EIGENVALUES OF THE NEUMANN LAPLACIAN

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05/09/2018
10h

Auditório do MAT

Abstract. We prove an isoperimetric inequality for lower order eigenvalues of the free membrane problem in bounded domains of a Euclidean space or a hyperbolic space which strengthens the well-known Szego-Weinberger inequality and supports strongly an important conjecture of Ashbaugh-Benguria. This is a joint work with Qiaoling Wang.