Li, Shan; Mao, Jing
Estimates for sums of eigenvalues of the free plate with nonzero Poisson’s ratio. (English)
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Summary: By using the Fourier transform, we successfully give Kröger-type estimates for sums of eigenvalues of the free plate (under tension and with nonzero Poisson’s ratio) in terms of the dimension of the ambient space, the volume of the domain, the tension parameter and the Poisson’s ratio.

MSC:
35P15 Estimates of eigenvalues in context of PDEs
35J40 Boundary value problems for higher-order elliptic equations
53C42 Differential geometry of immersions (minimal, prescribed curvature, tight, etc.)
74K20 Plates

Keywords:
Fourier transform; bi-Laplace operator; free plate problem

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