

26.06
14:30-15:00

On reverse Faber-Krahn inequalities

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This talk discusses the reverse Faber-Krahn inequality for the largest eigenvalue, $\tau_1(\Omega)$, of the Logarithmic potential operator \mathcal{L} on a bounded open set $\Omega \subset \mathbb{R}^2$. We further discuss monotonicity of $\tau_1(\Omega \setminus \mathcal{O})$ with respect to certain translations and rotations of an obstacle \mathcal{O} within Ω .

[AJ25] T.V. Anoop and J.R. Johnson, *Reverse Faber-Krahn inequalities for the Logarithmic potential operator*, 2025, arXiv: [2501.13569](#).