

Semiclassical Moser-Trudinger inequalities

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In this talk, I will discuss the extension of the Moser-Trudinger inequality of one function to systems of orthogonal functions. The obtained results are asymptotically sharp when applied to the collective behavior of eigenfunctions of Schrödinger operators on bounded domains.

The talk is based on a joint work with Rakesh Arora and Phan Thành Nam.