

Nonnormality of integral operators in acoustic scattering

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The study of nonnormality of partial differential operators has seen tremendous advances in recent decades. Yet, only little is known about nonnormality of boundary integral operators, in particular in acoustic scattering. In this talk we motivate why nonnormality matters for boundary integral operators in acoustic scattering and present several recent results about spectral decompositions and nonnormality for general smooth domains. This talk is joint work with Euan Spence and Joel Phillips.