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A family of anisotropic integral operators and behaviour of its maximal eigenvalue

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We study the family of compact integral operators $\frac{1}{1} + \frac{1}{1 + (x-y)^2 + (x-y)^2 + \frac{1}{1 + (x-y)^2 + (x-y)^2 + (x-y)^2 + \frac{1}{1 + (x-y)^2 + (x-y)^2 + (x-y)^2 + \frac{1}{1 + (x-y)^2 + (x-y)$

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