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Bochner–Riesz Means With Respect to a 2 by 2 Cylinder

We present estimates for Bochner–Riesz means with respect to the $\mathbf{R}^2 \times \mathbf{R}^2$ cylinder variant $\big\{\xi, \max\{\xi_1^2+\xi_2^2, \xi_3^2+\xi_4^2\} = 1\big\}$. The operator S^λ to be studied is given by

$$\widehat{S^\lambda f}(\xi) = \Big(1 - \max\Big\{\sqrt{\xi_1^2+\xi_2^2}, \sqrt{\xi_3^2+\xi_4^2}\Big\}\Big)_+^\lambda.$$