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Paul T Taylor* (pttaylor@ship.edu), Department of Mathematics, Shippensburg University, 1871 Old Main Drive, Shippensburg, PA 17257. *Bochner-Riesz Means With Respect to a 2 by 2 Cylinder.*

Estimates are presented for Bochner-Riesz means with respect to the cylinder variant $\{\xi, \max\{\xi_1^2 + \xi_2^2, \xi_3^2 + \xi_4^2\} = 1\}$. This cylinder presents an interesting challenge with its rough corners and the complexity of $\mathbf{R}^2 \times \mathbf{R}^2$ compared to $\mathbf{R}^3 \times \mathbf{R}$. (Received September 18, 2007)