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Two-dimensional Sunouchi Operator with respect to Vilenkin-like Systems

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Abstract: In this paper two-dimensional Vilenkin-like systems will be investigated. We prove the Sunouchi operator is bounded from H^q to L^s for $(2/3 < q \leq 1)$. As a consequence, we prove the Sunouchi operator is L^s bounded for $1 < s < \infty$ and of weak type (H^1, L^1) .



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