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Title: On the restricted summability of two-dimensional Walsh–Fejér means

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The main aim of this paper is to discuss the properties of the maximal operator of two-dimensional Walsh–Fejér means, where the set of indices is inside a cone-like set L . We show that the maximal operator σ_L^* is not bounded from the Hardy space $H_{1/2}^\alpha$ to the space $L_{1/2}$. For $p > 1/2$ WEISZ [14] showed that the maximal operator σ_L^* is bounded from the Hardy space H_p^α to the space L_p . That is, we show that the assumption $p > 1/2$ is essential in the theorem of Weisz.

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