

On the two-dimensional Fejér means of Walsh-like systems

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Gát gave a common generalization of the two more than 60 years old result of Marcinkiewicz and Zygmund [4] and the result of Jessen, Marcinkiewicz and Zygmund [3]. He gave a necessary and sufficient condition for cone-like sets in order to preserve this convergence property [1].

In 2010, the analogue of this result for Walsh system was discussed by Gát and Nagy [2].

In this lecture we show some new results written in the last years by the author and others.

References

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- [3] B. JESSEN, J. MARCINKIEWICZ, A. ZYGMUND, Note on the differentiability of multiple integrals, *Found. Math.* **25** (1935) 217-234.
- [4] J. MARCINKIEWICZ, A. ZYGMUND, On the summability of double Fourier series, *Found. Math.* **32** (1939) 112-139.

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