ON GENERALIZED RIESZ SUMMABILITY
OF FACTORED FOURIER SERIES

DEEPAK ACHARYA, SUBRATA KUMAR SAHU*,
PURNA CHANDRA NAYAK AND UMAKANTA MISRA

Abstract. In the present article, we have established a result on $\varphi - |\bar{N}, p_n; \delta, \mu|_k$ summability of general summability factor of Fourier series, generalizing a result on $|\bar{N}, p_n|_k$ summability.

Mathematics subject classification (2020): 40D15, 42A24, 42A16.

Keywords and phrases: Summability factors, absolute summability, infinite series, Fourier series, Hölder inequality, Minkowski inequality.

REFERENCES

[1] G. H. HARDY, *Divergent Series*, Oxford University Press, Oxford, 1949.

[2] H. BOR, *On two summability methods*, Math. Proc. Cambridge Philos. Soc., **97** (1985), 147–149.

[3] H. BOR, *Multipliers for $|\bar{N}, p_n|_k$ summability of Fourier series*, Bull. Inst. Math. Acad. Sin. (N.S.), **17**, (1989), 285–290.

[4] H. BOR, *On the absolute summability factors of Fourier series*, J. Comput. Anal. Appl., **8**, (2006), 223–227.

[5] H. BOR, *Some new results on infinite series and Fourier series*, Positivity, **19**, (2015), 467–473.

[6] H. BOR, *Some new results on absolute Riesz summability of infinite series and Fourier Series*, Positivity, **20**, (2016), 599–605.

[7] H. S. OZARSLAN, *On the local property of $\varphi - |\bar{N}, p_n; \delta|_k$ summability of factored Fourier Series*, Bull. Inst. Math. Acad. Sin. (N.S.), **25**, (1997), 311–316.

[8] H. S. OZARSLAN, *A note on $|\bar{N}, p_n|_k$ summability factors*, Int. J. Pure Appl. Math. **13**, (2004), 485–490.

[9] H. SEYHAN, *The absolute summability methods*, Ph.D. thesis, Ereiyes University, Kayseri, 1995.

[10] K. H. MISHRA, *Multipliers for $|\bar{N}, p_n|_k$ summability of Fourier series*, Bull. Inst. Math. Acad. Sin. (N.S.), **14**, (1986), 431–438.

[11] S. YILDIZ, *On Riesz Summability factors of Fourier series*, Transaction of A. Razmadze Mathematical Institute, **171**, (2017), 328–33.

© ELEM, Zagreb
Paper JCA-21-11

Journal of Classical Analysis
www.ele-math.com
jca@ele-math.com