

ON CONVERGENCE AND DIVERGENCE OF FOURIER–BESSEL SERIES *

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Abstract. We furnish another proof, based on an idea of Prestini [?], of a maximal inequality for the partial sum operators of Fourier–Bessel expansions proved by Guadalupe, Pérez, Ruiz and Varona [?]. Divergence results and mean convergence are also discussed.

Key words. Fourier–Bessel expansions, almost everywhere and norm convergence.

AMS subject classifications. 42C10.

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