A NEW BANACH SPACE DEFINED BY EULER TOTIENT MATRIX OPERATOR

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Abstract. The main object of this paper is to introduce a new Banach space derived by using a matrix operator which is comprised of Euler’s totient function. Also, we determine α, β, γ-duals of this space and characterize some matrix classes on this new space. Finally, we obtain necessary and sufficient conditions for some matrix operators to be compact.

Mathematics subject classification (2010): 40C05, 46A45, 47B37, 47B07.

Keywords and phrases: Euler function, Möbius function, sequence spaces, matrix operators, compact operators, Hausdorff measure of noncompactness.

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