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Sukhdev Singh* (singh.sukhdev01@gmail.com), Jalandhar-Delhi G.T Road, (NH-1), Phagwara, Punjab , India. *On the Orlicz function and bicomplex paranormed space $\mathbb{C}_2(s)$ of double sequences.*

In this paper, by using the Orlicz function, we introduce the paranormed sequence space $\mathbb{C}_2(s)$ which is the generalization of the space $\mathbb{C}_2(s_p)$ of all absolutely p -summable \mathbb{C}_2 -double sequences. Some topological properties of the space $\mathbb{C}_2(s)$ are examined and determine its α -, β - and γ -duals. Also, some classes of bicomplex matrix transformations are characterized from the space $\mathbb{C}_2(s)$ into other spaces of double sequences. (Received September 12, 2019)