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A Generalization of Hölder and Minkowski Inequalities

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Abstract: In this work, we give a generalization of Hölder and Minkowski inequalities to normal sequence algebras with absolutely monotone seminorm. Our main result is Theorem 2.1 and Theorem 2.2 which state these extensions. Taking $F = \ell_1$ and $\|\cdot\|_F = \|\cdot\|_1$ in both these theorems, we obtain classical versions of these inequalities. Also, using these generalizations we construct the vector-valued sequence space $F(X, \lambda, p)$ as a paranormed space which is a most general form of the space $c_0(X, \lambda, p)$ investigated in [6].



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