

ISOMETRIES AND HERMITIAN OPERATORS ON COMPLEX SYMMETRIC SEQUENCE SPACES

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We consider a complex symmetric sequence space E that possesses the Fatou property and is different from l_2 . We prove that, for every surjective linear isometry V on E , there exist $\lambda_n \in \mathbb{C}$ with $|\lambda_n| = 1$ and a bijective mapping π on the set \mathbb{N} of natural numbers such that

$$V(\{\xi_n\}_{n \in \mathbb{N}}) = \{\lambda_n \xi_{\pi(n)}\}_{n \in \mathbb{N}}$$

for every $\{\xi_n\}_{n \in \mathbb{N}} \in E$.

Key words and phrases: surjective isometry, complex symmetric space, Fatou property.

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