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FRACTIONAL ORDER EULER DIFFERENCE SEQUENCE SPACES BY USING MODULUS FUNCTION

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Abstract. In this paper, we introduces new classes of Euler fractional difference sequence spaces defined by modulus function. These spaces generalize the classical difference sequence spaces by incorporating the fractional difference operator and a modulus function, providing a more flexible and comprehensive framework. The study investigates the topological properties of these spaces and determines their dual spaces, offering significant insights into their structural characteristics.

Mathematics subject classification (2020): 46A45, 40A35, 46A80.
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Paper JCA-26-12

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