



# EXPLORING LACUNARY STATISTICAL CONVERGENCE FOR DOUBLE SEQUENCES IN NEUTROSOPHIC $n$ -NORMED LINEAR SPACES

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**Abstract.** In this research paper, we delve into the intriguing concept of lacunary statistical convergence for double sequences and develop this notion further by examining lacunary statistical Cauchy double sequences within neutrosophic  $n$ -normed linear spaces. Additionally, we define lacunary statistical limit points and cluster points, and present several notable results within this particular framework.

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