

HYPOTHESIS OF VALUE DISTRIBUTION AND ITS ASSOCIATED PROBLEMS OF INFINITE DIMENSION

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Abstract: In this current paper, we introduced the overture of the subsequent field given by the span of a finite number of vectors as follows: **(1)** The complete normed inner product space of Nevanlinna theory. **(2)** A complete normed vector space of Nevanlinna theory over the real or complex field.

Keywords and Phrases: Nevanlinna theory, infinite-dimensional space, E -valued function, Hilbert space, Banach space.

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1. Introduction and Results

Ever since first and second fundamental theorem of Nevanlinna appeared in 1925 [2]. Many authors have researched on this theorem taking the range of the function in infinite-dimensional Banach space and Hilbert space. In this paper, we are examined initial and subsequent theorem of Nevanlinna E -value in Hilbert space as well as Banach space via representation sections by the concept and properties of meromorphic maps.

2. Theory of Value Distribution of Infinite-dimension

2.1. Theory of Value distribution in Hilbert space

Before establishing Nevanlinna formula of *Poisson – Jensen*, the vector-valued function of finite dimension was extended from the classical Nevanlinna theory of