RESULTS ON TRANSCENDENTAL MEROMORPHIC FUNCTIONS CONCERNING $\mathbb{C}$-SHIFT DIFFERENCE OPERATOR WITH $k^{th}$ DERIVATIVE

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Abstract. In this literature survey, we study the $n^{th}$ exact difference of the logarithmic derivative lemma and second main theorems for meromorphic functions respectively, we here mainly study the uniqueness problems for transcendental meromorphic functions concerning $\mathbb{C}$-shift difference operator with $k^{th}$ derivative. Also our results extends and improvized some results due to Wangning Wu, Tingbin Cao.

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