



# Some results on zeros distributions and uniqueness of derivatives of difference polynomials

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We consider the zeros distributions on the derivatives of difference polynomials of meromorphic functions, and present some results which can be seen as the discrete analogues of Hayman conjecture [\cite{hayman1}](#), also partly answer the question given in [\cite\[P448\]{luolin}](#). We also investigate the uniqueness problems of difference-differential polynomials of entire functions sharing one common value. These theorems improve the results of Luo and Lin [\cite{luolin}](#) and some results of present authors [\cite{liuliucao}](#).

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