

Dedicated to the 35th anniversary of the University of Baia Mare

ON A CLASS OF INTEGRAL FUNCTIONS IN VALUED FIELDS

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Abstract. Let $P(X)$ be a polynomial with coefficients in \mathbb{Z} . We suppose there exists an integral number N_0 such that $P(n) > 0, \forall n > N_0$. We consider the set $D = \{1/P(n), n \geq N_0\}$. This paper is devoted to find all the integral functions $f(X)$ with coefficients in \mathbb{Q} such that $f(D) \subset D$.