HÖLDER ρ-ALMOST PERIODIC TYPE FUNCTIONS IN $\mathbb{R}^n$

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Abstract. In this paper, we analyze the Hölder ρ-almost periodic type functions in $\mathbb{R}^n$, the Lipschitz ρ-almost periodic type functions in $\mathbb{R}^n$ and provide certain applications of our results to the abstract Volterra integro-differential equations. We consider the Hölder ρ-almost periodicity and the Lipschitz ρ-almost periodicity for the functions $F : \Lambda \times X \to Y$, where $\emptyset \neq \Lambda \subseteq \mathbb{R}^n$, X and Y are complex Banach spaces.