A CLASS OF HYPERCYCLIC VOLterra COMPOSITION OPERATORS

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ABSTRACT. It is known that the Volterra operator on $L^p[0, 1], p \in [1, \infty)$ is cyclic but not supercyclic (cf. Gallardo-Gutierrez, Eva A., Montes-Rodriguez, Alfonso, The Volterra operator is not supercyclic. Integral Equations Operator Theory 50 (2004), no. 2, 211–216). In this talk, we show that certain Volterra composition operators are hypercyclic on the Fréchet space of continuous functions $u : [0, 1) \to \mathbb{R}$ or $\mathbb{C}$ with $u(0) = 0$. 