

Composition operators on Banach spaces of continuous functions induced by topological dynamics

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For a compact metric space X , $C(X)$ denotes the Banach space of the complex-valued continuous functions on X with the sup norm. A continuous map $\varphi : X \rightarrow X$ induces a bounded linear operator $C_\varphi : C(X) \rightarrow C(X)$; $f \mapsto f \circ \varphi$, called the composition operator induced by φ .

We have an elementary discussion on spectra of composition operators in connection with topological dynamics.