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*On the hidden point spectrum of composition operators*

Let  $Hol(D)$  be the space of holomorphic functions on the open unit disk  $D$  of the complex plane. Let  $X$  be an arbitrary Banach space which embeds continuously in  $Hol(D)$ . The aim of this talk is to describe the spectral projections on the eigenspaces of  $C_\varphi$ , where  $\varphi : D \rightarrow D$  is holomorphic,  $\varphi$  has a fixed point in  $D$ , and  $C_\varphi \in \mathcal{L}(X)$  is given by  $C_\varphi(f) = f \circ \varphi$ . The main interest of our result is that it is still valid for eigenspaces associated with non-isolated eigenspaces.