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Bhupendra Paudyal* (bpaudya@rockets.utoledo.edu). *Eigenfunctions of composition and weighted composition operators.*

Let ϕ be a holomorphic self map of the unit disk \mathbb{D} and u be any holomorphic map on D with $\phi(0) = 0$ and $0 < \phi'(0) < 1$. I will discuss eigenvalues and eigenfunctions of C_ϕ and uC_ϕ on the set of holomorphic functions $H(\mathbb{D})$. Then I will provide the conditions on u and ϕ that ensure that all these eigenfunctions (as of $H(\mathbb{D})$) are also the eigenfunctions of the bounded operator uC_ϕ on α -Bloch spaces \mathcal{B}_α , $0 < \alpha < \infty$. (Received September 15, 2013)