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Composition Operators on Weighted Bergman and S^p Spaces.

Let φ be an analytic self-map of open unit disk $\mathbb{D}$. The operator given by $(C_\varphi f)(z) = f(\varphi(z))$, for $z \in \mathbb{D}$ and f analytic on $\mathbb{D}$ is called composition operator. For each $p \geq 1$, let S^p be the space of analytic functions on $\mathbb{D}$ whose derivatives belong to the Hardy space H^p. For $\alpha > -1$ and $p > 0$ the weighted Bergman space A^p_α consists of all analytic functions in $L^p(\mathbb{D}, dA_\alpha)$, where dA_α is the normalized weighted area measure. In this talk, we characterize boundedness and compactness of composition operators act between weighted Bergman A^p_α and S^q spaces, $1 \leq p, q < \infty$. Moreover, we give a lower bound for the essential norm of composition operator from A^p_α into S^q spaces, $1 \leq p \leq q$. (Received January 18, 2015)