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*“Composition operators on general complex domains”*

The composition operator is a well-known linear operator acting boundedly on several analytic function spaces. There is a profusion of remarkable results on the composition operator on the Hardy space  $H^p$  and the Bergman space  $A^p$  of the unit disk  $\mathbb{D}$ , for instance. Less is known on domains with less regular boundary. In this talk, we give an overview of some results on less smooth domains. We will give a new boundedness result on Carleson domains, known as domains  $\Omega$  (bounded or unbounded) such that for any Carleson measure  $\mu$ , the  $L^1(\Omega, d\mu)$ -norm of a function in  $H^1$  is less than  $C(\mu)\|f\|_{L^1(\partial\Omega)}$ . We will provide some simple general domains for which the composition operator is bounded. It is based on a current joint work with B.R. Choe, H. Koo and W. Smith.

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