Hausdorff operators in \$H^p\$ spaces, \$0<p<1\$</pre>

Elijah Liflyand, Bar-Ilan University

For the theory of Hardy spaces H^p , $0 , the Hausdorff operators turn out to be a very effective testing area, in dimension one and especially in several dimensions. In contrast to the study of the Hausdorff operators in <math>L^p$, $1 \le p \le \inf d \le 1$, and other related spaces, the study of these operators in the Hardy spaces H^1 , and other related spaces, the study of these operators in the Hardy spaces H^p , $1 \le p \le 1$, holds a specific place and there are very few results on this topic. For the case of one dimension, after the work of Kanjin and Miyachi, more or less final results were given in our joint paper with Miyachi. The results differ from those for L^p , $1 \le p \le 1$, $1 \le 1$,