

EXTENSION OF THE INTEGRAL OPERATOR ON HARDY SPACES

BARTOSZ STANIÓW

ABSTRACT. We will present some results concerning integral operator T_g on Hardy spaces H^p , $p \in [1, \infty)$. In particular we will be interested in analyzing an optimal domain of T_g , i.e. the biggest space $[T_g, H^p]$, $H^p \subset [T_g, H^p]$, such that the integral operator still has its values in H^p . We will also show some applications to Libera type operators. The obtained results extends the recent studies of G. Curbera and W. Ricker on Cesàro operator. Talk is based on joint work with P. Mleczko.