

An observation on Hardy spaces

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I aim here to consider Hardy spaces mainly with variable exponents.

The exponent is assumed to satisfy the so called log-Hölder condition and decay condition.

In this talk, we assume that $0 < p_- \leq p_+ < \infty$. It can happen $0 < p_- < 1 < p_+ < \infty$. Most of our argument do not rely heavily upon the underlying structure of $L^{p(\cdot)}$. If time permits, we would like to discuss some generalizations.

This is a part of joint works with Professors T. Iida, E. Nakai and H. Tanaka.

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