UNIFORM APPROXIMATION OF MUCKENHOUPT WEIGHTS ON FRACTALS BY SIMPLE FUNCTIONS

MARILINA CARENA AND MARISA TOSCHI

ABSTRACT. Given an A_p-Muckenhoupt weight on a fractal obtained as the attractor of an iterated function system (IFS), we construct a sequence of approximating weights, which are simple functions belonging uniformly to the A_p class on the approximating spaces.