UNCONDITIONAL BASES IN VARIABLE LEBESGUE SPACES

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In case when Hardy-Littlewood maximal operator is bounded in $L^{p(\cdot)}(R^n)$ variable Lebesgue spaces, any regular wavelet system is an unconditional basis in this space. We investigate the similar problem when local Hardy-Littlewod maximal operator is bounded in $L^{p(\cdot)}(R^n)$ space.