PARAMETRIC LITTLEWOOD–PALEY OPERATORS 
ON VARIABLE HERZ–MORREY SPACES

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Abstract. Let $\alpha(\cdot) \in L^\infty(\mathbb{R}^n)$ and $p(\cdot): \mathbb{R}^n \to (0, \infty)$ be variable exponent functions satisfying the globally log-Hölder continuous condition. In this paper, the authors obtain the boundedness of parametric Littlewood-Paley operators and their commutators generated by BMO functions on variable Herz-Morrey spaces. All these results are still new even when the exponent function $\alpha(\cdot)$ is $\alpha$.


Keywords and phrases: Parametric Littlewood-Paley operator, commutator, Herz-Morrey space, variable exponent, BMO function.

REFERENCES
