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BMO SPACES FOR NONDOUBLING METRIC MEASURE SPACES

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Abstract: In this article we study the family of BMO^p spaces, $p \geq 1$, in the general context of metric measure spaces. We give a characterization theorem that allows to describe all possible relations between these spaces considered as sets of functions. Examples illustrating the obtained cases and some additional results related to the John–Nirenberg inequality are also included.

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Key words: *BMO* space, metric measure space, non-doubling measure, John–Nirenberg inequality.