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Galia Dafni, Tuomas Hytönen, Riikka Korte and Hong Yue* (hong.yue@gcsu.edu). *The space JN_p : nontriviality and duality.*

We study a function space JN_p based on a condition introduced by John and Nirenberg as a variant of BMO. It is known that $L^p \subset JN_p \subsetneq L^{p,\infty}$, but otherwise the structure of JN_p is largely a mystery. Our first main result is the construction of a function that belongs to JN_p but not L^p , showing that the two spaces are not the same. Nevertheless, we prove that for monotone functions, the classes JN_p and L^p do coincide. Our second main result describes JN_p as the dual of a new Hardy kind of space $HK_{p'}$. (Received July 31, 2017)