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**Galia Dafni** and **Hong Yue\*** (yue@trine.edu), 1 University Ave., Angola, IN 46703. *Some characterizations of local bmo and  $h^1$  on metric measure spaces.*

We study, in the setting of a doubling metric measure space, the local bmo and Hardy space  $h^1$  defined by Goldberg. We prove a John-Nirenberg type inequality for the local bmo space and the boundedness of the Hardy-Littlewood maximal function from bmo to bmo. In addition, we give characterizations of bmo and  $h^1$  using alternative mean-oscillation and moment conditions. (Received September 21, 2011)