

**Meeting:** 1000, Albuquerque, New Mexico, SS 12A, Special Session on Regularity in PDEs and Harmonic Analysis

1000-42-62            **Galia D. Dafni\*** (gdafni@mathstat.concordia.ca), Department of Mathematics and Statistics,  
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*Local Hardy spaces and nonhomogeneous div-curl lemmas.*

Properties of the local Hardy space  $h^1$  of Goldberg are studied, in particular duality with a local version of VMO. Nonhomogeneous versions of the div-curl lemma, in which  $h^1$  is the target space, are proved in the whole Euclidean space and in domains. (Received August 10, 2004)