1067-42-2426   **Li-An Daniel Wang*** (`lwang3@uoregon.edu`), Department of Mathematics, University of Oregon, Eugene, OR 97403. *Multiplier theorem on anisotropic Hardy spaces.*

The anisotropic Hardy space H_A^p, for $p \in (0,1]$, is a generalization of the classical Hardy space in which the Euclidean norm is replaced by a quasinorm associated with a dilation matrix A. We answer the following question: Under what conditions on a multiplier m will the operator $Tf = (\hat{f}m)^\vee)$ be bounded on H_A^p? (Received September 23, 2010)