1038-42-313   **Michael Bateman*** (`mdbatema@indiana.edu`), Department of Mathematics, Rawles Hall, 831 East 3rd St, Bloomington, IN 47405. *Maximal averages along one-variable vector fields.*

We prove L^p estimates for a maximal operator along rectangles pointed in the direction of a vector field in $\mathbf{R}^2$ depending on one variable. These estimates are related to the work of Lacey and Li on the Hilbert transform along vector fields. (Received February 12, 2008)