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Alexey Cheskidov* (acheskid@math.uchicago.edu), Department of Mathematics, University of Chicago, 5734 S. University Avenue, Chicago, IL 60637, and **Peter Constantin, Susan Friedlander** and **Roman Svydkoy**. *On the locality of the enstrophy cascade in a 2D flow.*

We will present sharp estimates on the enstrophy flux in a 2D divergence-free vector field that show strong locality in the ultraviolet range. We will also discuss an example of a vector field for which the enstrophy cascade is nonlocal in the infrared range. (Received August 20, 2007)