1003-65-1182 **Bradley J. Lucier*** (`lucier@math.purdue.edu`), Department of Mathematics, Purdue University, 150 North University Street, West Lafayette, IN 47907-2067, and **Antonin Chambolle**, CEREMADE (CNRS UMR 7534), Université de Paris–Dauphine, Paris, France. *YAWTSI: Yet Another Way To Smooth Images (and keep edges).* Preliminary report.

We show the results of two algorithms for $B^1_\infty(L_1)$ variational smoothing, one based on wavelets (similar to Wavelet Shrinkage for $B^1_1(L_1)$ smoothing) and one based on pixel values (similar to Chambolle's method for BV smoothing). Experiments show that the qualitative properties of the smoothed images depend critically on the form of the $B^1_\infty(L_1)$ seminorm that one uses in the variational problem. (Received October 04, 2004)