

1135-49-1305 **Otmar Scherzer*** (`otmar.scherzer@univie.ac.at`), Computational Science Center, University of Vienna, 1090 Vienna, Austria, and **Jose Iglesias** and **Gwenael Mercier**. *A note on convergence of solutions of total variation regularized linear inverse problems*. Preliminary report.

The recent paper by Chambolle, A. and Duval, V. and Peyre, G. and Poon, C. , 2017, essentially shows that under a standard smoothness condition, first formulated in Burger and Osher ,2004, the level sets of total variation denoised solutions are converging to the level sets of the true solution. In this talk we show how we are extending this work to general linear inverse problems, such as deblurring.

This is joint work with J. Iglesias and G. Mercier (Received September 21, 2017)