1023-35-1912 **Otmar Scherzer*** (`otmar.scherzer@uibk.ac.at`), Technikerstr. 21a, Innsbruck, 6020. *TV Regularization versus Taut String for Density Estimation.*

We discuss the generlization of the taut-string algorithm for density estimation of high dimensional data. As we show, the taut string algorithm can be considered a composition of creating auxiliary images via Delauney's trinagulation and total variation regularization. It is also notable that the taut string algorithm is a more general concept than total variation regularization which also allows filtering of distributions. This is joint work with A. Obereder (Innsbruck) and A. Kovac (Bristol). (Received September 29, 2006)