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Christine De Mol* (demol@ulb.ac.be), Dept Math Univ. Libre de Bruxelles, Campus Plaine C. P. 217, Bd du Triomphe, 1050 1050 Brussels, Belgium. *Wavelet-based inversion algorithms for resolution enhancement*. Preliminary report.

Several inversion schemes proposed recently in the literature and using wavelet expansions are briefly reviewed and compared. Some new algorithms are described, aiming at improving the achievable resolution in the restoration of the fine details of non-stationary or spatially inhomogeneous objects blurred e. g. by convolution kernels. (Received September 30, 2000)