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Gestur Olafsson* (olafsson@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and **Boris Rubin** and **Elena Ournycheva**. *Wavelets and Radon Transform*.

We will discuss how wavelets on invariant cones can be used to invert the Radon transform on the space of n by m matrices. (Received September 16, 2005)