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**Thomas A Beery\***, Thomas Beery, Los Alamos National Laboratory, Mail Stop P912, Los Alamos, NM 87545. *Reconstructing Tilted, Axis-Symmetric Objects from Radiographs*. Preliminary report.

When the axis of symmetry of an object is parallel to the image plane, the discrete Abel inverse can be used for reconstruction. For tilted objects, this is not possible. Results based on Conjugate Gradient Least Squares and Singular Value Decomposition are presented. Implications for the Adjoint Method are discussed. (Received August 24, 2011)