

**Meeting:** 1003, Atlanta, Georgia, MAA CP R1, MAA Session on My Three Favorite Original Calculus Problems

1003-R1-873      **Charles W. Groetsch\*** ([groetsch@uc.edu](mailto:groetsch@uc.edu)), Department of Mathematics, University of Cincinnati, P.O. Box 210025, Cincinnati, OH 45221-0025. *Honors Class Problems on Uniqueness and Inversion*. Preliminary report.

A "toy" problem, inspired by inversion techniques in the mathematics of medical imaging, but based on elementary mechanics is described. The problem, which involves uniqueness and inversion of a nonlinear transform, is suitable for use as an enrichment project in classes in honors calculus. (Received September 30, 2004)