

1125-41-3121 **Frank Stenger*** (sinc_f@msn.com), School of Computing, University of Utah, Salt Lake City,
UT 84103. *Ultrasonic tomography inversion of the Helmholtz equation via indefinite convolution.*

A novel procedure is presented for obtaining the solution to the 3-d Helmholtz equation. The procedure uses novel indefinite convolution. It is extremely fast and accurate, and it enables an efficient method of inversion, for ultrasonic tomography. (Received September 21, 2016)