



[Section 10-18.1](#) Shepp-Logan phantom reconstruction from about half of its 2-D DFT values (excluding conjugate symmetric values).

Purpose This seems to be a half underdetermined problem. Yet, using compressed sensing, we can completely reconstruct the Shepp-Logan phantom.

Inputs: Random locations of known 2-D DFT values of Shepp-Logan phantom, threshold-and shrinkage T of 2-D Haar transform used in ISTA algorithm.

Outputs: Reconstructed Shepp-Logan phantom.

Program: See link associated with this description.

