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Martin Malandro* (martin.malandro@dartmouth.edu). *Fast Fourier Transforms for Inverse Semigroups*. Preliminary report.

We examine the notion of the Fourier transform for inverse semigroups, and we discuss a general method for constructing inverse semigroup FFTs (fast Fourier transforms). This marks the first extension of the theory of group FFTs to (non-group) semigroups. (Received September 18, 2007)