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Keith R Ouellette* (kouellet@holycross.edu), Department of Mathematics and Comp. Sci.,
College of the Holy Cross, 1 College Street, Worcester, MA 01610. *On the Fourier inversion
theorem for the full modular group.*

We offer a new proof of the Fourier inversion and Plancherel formulae for Maass-Eisenstein wave packets. The proof uses truncation, basic analysis, and classical Fourier theory. Brief sketches of the proofs due to Langlands, Lapid, and Casselman are then presented for comparison. (Received February 15, 2011)