

## A MIXED PARSEVAL–PLANCHEREL FORMULA

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*Abstract.* In this note, a general formula is proved. It expresses the integral on the line of the product of a function  $f$  and a periodic function  $g$  in terms of the Fourier transform of  $f$  and the Fourier coefficients of  $g$ . This allows the evaluation of some oscillatory integrals.

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