



André Unterberger

# Quantization and Non-holomorphic Modular Forms

Series: Lecture Notes in Mathematics

This is a new approach to the theory of non-holomorphic modular forms, based on ideas from quantization theory or pseudodifferential analysis. Extending the Rankin-Selberg method so as to apply it to the calculation of the Roelcke-Selberg decomposition of the product of two Eisenstein series, one lets Maass cusp-forms appear as residues of simple, Eisenstein-like, series. Other results, based on quantization theory, include a reinterpretation of the Lax-Phillips scattering theory for the automorphic wave equation, in terms of distributions on  $R^2$  automorphic with respect to the linear action of  $SL(2, \mathbb{Z})$ .

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