

ALGEBRA AND NUMBER THEORY
SEMINAR

The field of Fourier coefficients of a modular form

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Abstract: Let f be a holomorphic cusp form of level N which is a normalized Hecke eigenform. The Fourier coefficients of f generate a number field. If N is squarefree, we show that in fact, this field is generated by a single Fourier coefficient. The result is effective.

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MATHEMATICS AND COMPUTER SCIENCE
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