

ALGEBRA
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*Periods of Modular Forms and Identities between Eisenstein
Series*

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Abstract: Borisov and Gunnels observed in 2001 that certain linear relations between products of two holomorphic weight 1 Eisenstein series had the same structure as the relations between periods of modular forms. We give a conceptual reason for this and for similar phenomena in all weights. This involves an unconventional way of expanding the Rankin-Selberg convolution of a cusp form with an Eisenstein series. (Joint with Kamal Khuri-Makdisi).

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MATHEMATICS AND COMPUTER SCIENCE
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