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*Fourier coefficients of Siegel Eisenstein series*

I report on an ongoing project (joint with Eliot Brenner) on vanishing and nonvanishing results for Fourier coefficients of Siegel Eisenstein series for symplectic groups. The vanishing result follows from the theory of rank and singular representations, and one is naturally lead to the study of representations of the metaplectic group. The nonvanishing result is obtained by global methods.