

1173-11-291

Oscar E Gonzalez* (oscareg2@illinois.edu). *Irreducibility of the zero polynomials of Eisenstein series.*

Let E_k be the normalized Eisenstein series of weight k . Let φ_k be the polynomial that encodes the j -invariants of non-elliptic zeros of E_k . In 2001, Gekeler observed that the polynomials φ_k seem to be irreducible (and verified this claim for $k \leq 446$). We show that φ_k is irreducible for infinitely many k . (Received September 21, 2021)