MIT Department of Mathematics  
Number Theory Seminar

THE GENERALIZED MOONSHINE CONJECTURE

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Abstract: In 1986, Norton formulated a generalization of the Monstrous Moonshine conjecture that was proposed by Conway and Norton and later proved by Borcherds. The generalized conjecture essentially asserts the existence of a distinguished function on the moduli space of elliptic curves with monster torsors, together with compatible representation-theoretic data at cusps. I will describe some recent progress on this conjecture that uses techniques from conformal field theory, Borcherds products for $O(2,2)$, and equivariant Hecke operators.

THURSDAY, March 13  
4:05 p.m.  
Room 4-149