

1145-11-34

Benedict H. Gross*, 142 N Rios Ave, Solana Beach, CA 92075. *Complex multiplication: past, present, future.*

In this talk, I will discuss major developments in the theory of complex multiplication which occurred in the second half of the twentieth century. These involve the L-functions of elliptic curves, as well as the study of special points on modular curves. I will review the conjecture of Birch and Swinnerton-Dyer, and discuss several ways that the theory of complex multiplication has been used to provide strong evidence for it. (Received June 27, 2018)