

1135-VS-2191 **Daniel Disegni*** (daniel.disegni@gmail.com). *Heegner cycles and derivatives of p -adic L -functions.*

In 1952 Heegner pioneered a method to construct rational solutions to cubic equations in two variables, using modular forms. Heegner's method can be generalised to construct algebraic cycles on other varieties. Moreover these cycles fit into p -adic families. I will present a formula for the p -adic height of the universal family of Heegner cycles, and its applications to the analogue of the Birch and Swinnerton-Dyer conjecture. (Received September 25, 2017)