

This comprehensive account of the Gross-Zagier formula on Shimura curves over totally real fields relates the heights of Heegner points on abelian varieties to the derivatives of L-series. The formula will have new applications for the Birch and Swinnerton-Dyer conjecture and Diophantine equations. The book begins with a conceptual formulation of the Gross-Zagier formula in terms of incoherent quaternion algebras and incoherent automorphic representations with rational coefficients attached naturally to abelian varieties parametrized by Shimura curves. This is followed by a complete proof of its coherent analogue: the Waldspurger formula, which relates the periods of integrals and the special values of L-series by means of Weil representations. The Gross-Zagier formula is then reformulated in terms of incoherent Weil representations and Kudlas generating series. Using Arakelov theory and the modularity of Kudlas generating series, the proof of the Gross-Zagier formula is reduced to local formulas. The Gross-Zagier Formula on Shimura Curves will be of great use to students wishing to enter this area and to those already working in it.

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We prove a general formula for the p -adic heights of Heegner points on The Gross-Zagier Formula on Shimura Curves, Annals of Mathematics Studies, vol.

A majority of elliptic curves over \mathbb{Q} satisfy the Birch and Swinnerton-Dyer conjecture. (with Manjul Bhargava Current Developments in Mathematics, Volume , Fourier transform and The Gross-Zagier formula on Shimura curves (with Xinyi Yuan, Shou-Wu Zhang). Annals of Math. Studies vol. , Princeton. Get Instant Access to The Gross Zagier Formula On Shimura Curves (Annals Of Mathematics. Studies) By Yuan, Xinyi, Zhang, Shou Wu, Zhang.

Wei Zhang or Zhang Wei (Chinese: ??; born) is a Chinese mathematician specializing in number theory. He is currently a Professor of Mathematics at the Massachusetts Institute of (with Xinyi Yuan, Shou-Wu Zhang) The Gross-Zagier formula on Shimura curves , Annals of Mathematics Studies vol. , Princeton. The Gross-Zagier Formula on Shimura Curves (with Shou-Wu Zhang and Wei Zhang), Annals of Mathematics Studies, Princeton University.

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