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**William A Stein\*** ([wstein@gmail.com](mailto:wstein@gmail.com)), 1212 East Barclay Court, Seattle, WA 98122.

*Gross-Zagier subgroups of elliptic curves over  $\mathbb{Q}$ .*

I will introduce the notion of Gross-Zagier subgroups of elliptic curves, which are certain subgroups that satisfy the Gross-Zagier formula. I will then give examples and counterexamples about them, state some new results and conjectures, and explain a connection with the Birch and Swinnerton-Dyer conjecture. (Received May 10, 2009)