1086-11-2311   **William A Stein*** (`wstein@uw.edu`), University of Washington, Seattle, WA 98122, and
Jennifer Balakrishnan and **Steffan Muller**. *What is p-adic BSD for abelian varieties?*

In 1986, Mazur, Tate, and Teitelbaum formulated a p-adic analogue of the Birch and Swinnerton-Dyer conjecture for elliptic curves over the rational numbers. This talk is about how to generalize their conjecture (in the good ordinary case) to higher dimensional modular abelian varieties over the rational numbers. I will discuss computational evidence for this more general conjecture in the case of modular hyperelliptic curves of genus 2. (Received September 25, 2012)