1056-BB-510   **William A Stein*** (`wstein@gmail.com`), University of Washington, Department of Mathematics, Box 354350, Seattle, WA 98195-4350. *Sage: Creating a Viable Free Open Source Alternative to Magma, Maple, and Mathematica for Number Theory.*

I initiated the Sage mathematical software project (http://sagemath.org) in 2005 to provide a powerful free open source web-friendly software package for computations in number theory. It has since grown to cover a wide range of other areas with contributions from over 200 people. In this talk, I will give a spirited introduction to Sage via a couple of well chosen computational demonstrations. (Received September 10, 2009)