

## planetmath.org

Math for the people, by the people.

## Weil conjectures

Canonical name WeilConjectures
Date of creation 2013-03-22 15:43:17
Last modified on 2013-03-22 15:43:17

Owner nerdy2 (62) Last modified by nerdy2 (62)

Numerical id 6

Author nerdy2 (62)
Entry type Conjecture
Classification msc 14G15
Classification msc 14G10
Classification msc 14G05

Conjectures made by Weil on the form of the zeta function of a variety over a finite field. Specifically he thought it should be rational, it should split into polynomial parts with integral coefficients, with roots of a certain magnitude, and of degree = Betti number. Further there should be a functional equation.

(Flesh this out;))