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Title: Hybrid mean value on the difference between a quadratic residue and its inverse modulo  $\boldsymbol{p}$ 

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The main purpose of this paper is using the generalized Bernoulli numbers, Gauss sums and the mean value theorems of Dirichlet L-functions to study the asymptotic property of the difference between a quadratic residue and its inverse modulo p (a prime), and give an interesting hybrid mean value formula.

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