MR2522763 (2010g:11046) 11D09 (11D85 11R11 11R29)

Mollin, R. A. (3-CALG-MS)

Characterization of $D = P^2 + Q^2$ when $\gcd(P, Q) = 1$ and $x^2 - Dy^2 = -1$ has no integer solutions. (English summary)

Far East J. Math. Sci. (FJMS) **32** (2009), *no. 2,* 285–294.

Using general connections between binary quadratic forms and ideal classes, the author characterizes those nonsquare integers $D > 1$ which can be written as a sum of two relatively prime squares and for which $x^2 - Dy^2 = -1$ has no solution in integers x, y.

Reviewed by *İsmail Naci Cangül*