MR2522763 (2010g:11046) \textit{11D09 (11D85 11R11 11R29)}

\textbf{Mollin, R. A.} (3-CALG-MS)

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


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

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