ON $D(-1)$-QUADRUPLES

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Abstract: Quadruples $(a, b, c, d)$ of positive integers $a < b < c < d$ with the property that the product of any two of them is one more than a perfect square are studied. Improved lower and upper bounds for the entries $b$ and $c$ are established. As an application of these results, a bound for the number of such quadruples is obtained.

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