Title: On the Diophantine equation $X^{2}-\left(2^{2 m}+1\right) Y^{4}=-2^{2 m}$
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Using a recent result of Akhtari on quartic Thue equations, it is shown that the quartic equation $X^{2}-\left(2^{2 m}+1\right) Y^{4}=-2^{2 m}$ has at most 12 solutions in odd positive integers $X, Y>1$.

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