

A Diophantine equation

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What is in general known about positive integer solutions (x,y) with x and y different of the equation $x^4 + mx^2y^2 + y^4 = \text{a square}$, for m an integer?

There are of course easy cases (such as $m=\pm 2$).

And there are known to me special cases (not easy) such that $m=-1$ (SIERPINSKY?) where the equation has no such solutions.

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