

Review of: "SAT is as hard as solving Homogeneous Diophantine Equation of Degree Two"

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In this paper the author offers a new perspective on homogeneous Diophantine equations of degree two. The paper is well written and the results are exceptionally interesting and mathematically correct. I do have some remarks and suggestions. I think it would be good to give a more detailed explanation of what SAT is in the Introduction part. The author should clarify the usage of three estimation methods rather than one. Proofs of theorems should be more detailed. I suggest that the author should write "a Diophantine equation is a polynomial equation with integer coefficients" instead of "a Diophantine equation is a polynomial equation".