

# Review of: "Symmetric Key generation And Tree Construction in Cryptosystem based on Pythagorean and Reciprocal Pythagorean Triples"

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Potential competing interests: No potential competing interests to declare.

This paper proposes a novel method for encrypting and decrypting text information based on Pythagorean triples and reciprocal Pythagorean triples.

I have the following comments:

1. What is the hardness assumption of the Pythagorean triples problem which ensures an attacker cannot break the encryption scheme based on it ?
2. No motivation for using Pythagorean triples problem.
3. No literature review on the previous cryptographic techniques.
4. The Main work shows the application of the Pythagorean triples to generate secret session keys but does not show the role of the reciprocal Pythagorean triples as mentioned in the abstract.
5. No security analysis.
6. No experimental results.
7. No comparison with previous cryptographic techniques.
8. All the code should be moved to the appendix.
9. The Conclusion should not repeat the mechanism of generating secret session keys.
10. The paper is poorly organized with grammar mistakes. It must be well proofread.