WEAKLY-SKEW IDENTITIES OF THE CAYLEY-DICKSON ALGEBRA

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Resumo

In this work we find all skew identities of the simple Malcev algebra $\mathbf{sl}(\mathbb{O})$ and the simultaneously skew and weak identities of the octonion algebra $\mathbb{O}$. For those special cases, we show positively the Shestakov-Zhukavets Conjecture. Finally, we show the Shestakov-Zhukavets Conjecture would be false with a slight relaxation of the hypothesis.