On the uniqueness of extension of twoparametric family of $D(4)$-triples
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A set of $m$ positive integers is called a $D(4)$ - $m$-tuple, if the product of any two of its distinct elements increased by 4 is a perfect square. There is a conjecture that $D(4)$-triple $\{a, b, c\}$ can be extended to a $D(4)$-quadruple $\{a, b, c, d\}$ such that $d>\max \{a, b, c\}$ in the unique way. That was proved for $D(4)$-triple $\{1,5,12\}$ and various parametric families of $D(4)$-triples. In this talk we will prove the conjecture for one twoparametric family of $D(4)$-triples.

