## Nonexistence of D(4)-quintuples

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We call the set of m positive distinct integers D(n)-m-tuple if the product of any of its two elements increased by n is a perfect square. Recently, a conjecture about nonexistence of D(1)-quintuples was proven. We will show how we have proven that a D(4)-quintuple also doesn't exist and present some facts about the conjecture that an extension of a D(n)-triple to a D(n)quadruple is unique, which is still an open problem in both cases n = 1 and n = 4. This is a joint work with A. Filipin.