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Research interest: Diophantine equations; Simultaneous Pellian equations; Diophantine  $m$ -tuples

## Recent publications:

- [1] C. Elsholtz, A. Filipin, Y. Fujita, *On Diophantine quintuples and  $D(-1)$ -quadruples*, Monatsh. Math., **175** (2) (2014), 227-239.
- [2] Lj. Bačić, A. Filipin, *A note on the number of  $D(4)$ -quintuples*, Rad Hrvat. Akad. Znan. Umjet. Mat. Znan., **18** (2014), 7-13.
- [3] A. Filipin, Y. Fujita, A. Togbe, *The extendibility of Diophantine pairs II: examples*, Journal of Number Theory, **145** (2014), 604-631.
- [4] Lj. Bačić, A. Filipin, *On the extendibility of  $D(4)$ -pairs*, Math. Commun., **18** (2013), 447-456.
- [5] Lj. Bačić, A. Filipin, *On the family of  $D(4)$ -triples  $\{k-2, k+2, 4k^3-4k\}$* , Bull. Belg. Math. Soc. Simon Stevin, **20** (2013), 777-787.

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- [1] C. Elsholtz, A. Filipin, Y. Fujita, *On Diophantine quintuples and  $D(-1)$ -quadruples*, Monatsh. Math., **175** (2) (2014), 227-239.
- [2] A. Filipin, Y. Fujita, A. Togbe, *The extendibility of Diophantine pairs I: the general case*, Glas. Mat. Ser. III, **49** (2014), 25-36.
- [3] A. Filipin, Y. Fujita, M. Mignotte, *The non-extendibility of some parametric families of  $D(-1)$ -triples*, Q. J. Math. **63** (2012), 3; 605-621.
- [4] A. Filipin, *There does not exist a  $D(4)$ -sextuple*, J. Number Theory **128** (2008), 1555-1565.
- [5] A. Dujella, A. Filipin, C. Fuchs, *Effective solution of the  $D(-1)$ -quadruple conjecture*, Acta Arith. **128** (2007), 319-338.