

# Andrej Dujella

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Research interest: Diophantine equations; Elliptic curves; Applications of number theory in cryptography.

## Recent publications:

- [1] A. Dujella, J. C. Peral, „High rank elliptic curves with torsion  $\mathbf{Z}/2\mathbf{Z} \times \mathbf{Z}/4\mathbf{Z}$  induced by Diophantine triples“, **LMS J. Comput. Math.** **17** (2014), 282 – 288.
- [2] J. Bosman, P. Bruin, A. Dujella, F. Najman: „Ranks of elliptic curves with prescribed torsion over number fields“, **Int. Math. Res. Not. IMRN 2014 (11)** (2014), 2885 – 2923.
- [3] Y. Bugeaud, A. Dujella: „Root separation for reducible integer polynomials“, **Acta Arith.** **162** (2014), 393 – 403.
- [4] A. Dujella, C. Fuchs: „On a problem of Diophantus for rationals“, **J. Number Theory** **132** (2012), 2075 – 2083.
- [5] A. Dujella: „On Hall's conjecture“, **Acta Arith.** **147** (2011), 397 – 402.

## Selected publications:

- [1] Y. Bugeaud, A. Dujella: „Root separation for irreducible integer polynomials“, **Bull. Lond. Math. Soc.** **43** (2011), 1239 – 1244.
- [2] A. Dujella, F. Luca: „Diophantine  $m$ -tuples for primes“, **Intern. Math. Research Notices** **47** (2005), 2913 – 2940.
- [3] A. Dujella, C. Fuchs: „Complete solution of a problem of Diophantus and Euler“, **J. London Math. Soc.** **71** (2005) 33 – 52.
- [4] A. Dujella: „There are only finitely many Diophantine quintuples“, **J. Reine Angew Math.** **566** (2004), 183 – 214.
- [5] A. Dujella, A. Pethő: „A generalization of a theorem of Baker and Davenport“, **Quart. J. Math. Oxford** **49** (1998), 291 – 306.