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Research interest: Arithmetic of elliptic curves; Diophantine equations; Polynomials; Ordered structures

Recent publications:

[1] I.Gusić, P.Tadić, *Injectivity of the specialization homomorphism of elliptic curves*, **Journal of Number Theory, Vol. 148**(2015), 137-152

[2] M.D. Fried, I. Gusić, *Schinzel's problem: Imprimitive covers and the monodromy method,* **Acta Arithmetica, Vol. 155** (2012), 27–40

[3] I.Gusić, P.Tadić, *A remark on the injectivity of the specialization homomorphism of elliptic curves*, **Glasnik Matematički**, **Vol. 47**(67) (2012), 265-275

[4] I.Gusić, L.Lasić, *Explicit canonical height on isotrivial elliptic curves*,**Journal of Algebra, Number Theory, Advances and Applications, vol. no: 7,** Issue no: 2, June (2012), 95-107

[5] I.Gusić, *Some applications of the abc-conjecture to the Diophantine equation $qy^m = f(x)$*, **Glasnik Matematički**, **Vol. 47** (67)(2012), 61-79

Selected publications:

[1] A.Dujella, I.Gusić, *Decomposition of a recursive family of polynomials*, **Monatshefte der Mathematik, 152, No2**, (2007), 97-104

[2] A.Dujella, I.Gusić, *Indecomposability of polynomials and related Diophantine equations*, **Quart.J.Math. Oxford, 57**(2006), 193-201

[3] I.Gusić, *A characterization of linear polynomials*, **Journal of Number Theory, 115** (2005), 343-347

[4] I.Gusić, *Algebraic independence of polynomials*, **Acta Aritmetica, XCII.1** (2000), 27-29

[5] I.Gusić, *Note on equality of L-functions of elliptic curves*, **Archiv der Mathematik, 7** (1998) 137-141