

# Services to the mathematical community

## Reviews

### A. International Journal of Number Theory (IJNT), World Scientific, Singapore

[1] **IJNT-D-10-00195**, L Houssain El Fadil,  
*Explicit factorization of prime integers and  $p$ -integral bases of quintic number fields defined by  $X^5 + aX^2 + b$*  (Preprint 2011),  
(AMS MSC 11R21, 11R29, 11R04, 11Y40)

### B. Asian-European Journal of Mathematics, World Scientific, Singapore

[1] **AEJM**, Abdelmalek Azizi, Abdelkader Zekhnini, and Mohammed Taous,  
*On the strongly ambiguous classes of  $k|\mathbb{Q}(i)$  where  $k = \mathbb{Q}(\sqrt{2p_1p_2}, i)$*  (Preprint 2013),  
(AMS MSC 11R37, 11R27, 11R29, 11R11, 11R16, 11R20)

### C. Journal of Algebra and its Applications, World Scientific, Singapore

[1] **JAA**, Abdelmalek Azizi, Abdelkader Zekhnini, and Mohammed Taous,  
*Coclass of  $\text{Gal}(k_2^{(2)}|k)$  for some fields  $k = \mathbb{Q}(\sqrt{p_1p_2q}, \sqrt{-1})$  with 2-class groups of type  $(2, 2, 2)$*  (Preprint 2014),  
(AMS MSC 11R37, 11R32, 11R29, 11R11, 11R16)

### D. British Journal of Mathematics and Computer Science (BJMCS), Science-domain International, Hooghly, India

[1] **Ms-BJMCS-31510**, Ramamonjy Andriamifidisoa,  
*Multicyclic codes and algebraic dynamical systems* (Preprint 2017),  
(AMS MSC 11T71, 13F25, 16D25, 16S34, 20C05)

### E. Acta Arithmetica, Poznan, Poland

[1] **170216**, Antonio Lei,  
*Estimating class numbers over metabelian extensions* (Preprint 2017),  
(AMS MSC 11R23, 11R29)

[2] **170411**, Enver Ozdemir and Ergun Yaraneri,  
*Class numbers of real quadratic fields I* (Preprint 2017),  
(AMS MSC 11E16, 11R29, 11R11, 11Y05)

### F. Mathematical Reviews (MR), Ann Arbor, Michigan, USA

[1]No. 1252345, **94m:11149**, Carlos Alberto Trujillo S.,  
*Curvas elípticas y algoritmos en teoría de números: factorización*,  
*Lecturas Matemáticas* **12** (1991), no. 1–3, 81–95,  
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- [2] No. 1336248, **96c:11128**, Stéphane Louboutin,  
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 (AMS MSC 11R29, 11R16)
- [3] No. 1621956, **2000a:11154**, Blair K. Spearman and Kenneth S. Williams,  
*An explicit integral basis for a pure cubic field*,  
 Far East J. Math. Sci. (FJMS) **6** (1998), no. 1, 1–14,  
 (AMS MSC 11R16, 11R04)
- [4] No. 1728334, **2000m:11105**, Şaban Alaca,  
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- [5] No. 1914584, **2003e:11120**, Moulay Chrif Ismaïli et Rachid El Mesaoudi,  
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- [9] No. 2038542, **2004k:11175**, Blair K. Spearman and Kenneth S. Williams,  
*The discriminant of a cyclic field of odd prime degree*,  
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 (AMS MSC 11R29, 11R20)
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 J. Number Theory **133** (2013), no. 1, 59–71,  
 (AMS MSC 11R16, 11R20, 11R04)
- [28] No. 3059109, **Dec 2013**, p. 144, Alejandro Aguilar-Zavoznik and Mario Pineda-Ruelas,  
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- [30] No. 3165518, **Oct 2014**, 81–83, Abdelmalek Azizi and Ali Mouhib,  
*On the Hilbert 2-class field tower of some abelian 2-extensions over the field of rational numbers*,  
 Czechoslovak Math. J. **63(138)** (2013), no. 4, 1135–1148,  
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- [31] No. 3198753, **2014**, Francisco Diaz y Diaz and Eduardo Friedman,  
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 Proc. London Math. Soc. (3) **108** (2014), 965–988,  
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- [32] No. 3240816, **2014**, Jean-François Biasse and Claus Fieker,  
*Subexponential class group and unit group computation in large degree number fields*,  
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 (AMS MSC 54C40, 14E20, 46E25, 20C20)
- [33] No. 3276340, **2015**, Jordi Guàrdia, Jesús Montes, and Enric Nart,  
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 (AMS MSC 11R04, 11Y40, 14G15, 14H05)
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 (AMS MSC 22E99, 11F99)

- [35] No. 3404031, **2016**, Andrew Wiles,  
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- [36] No. 3557585, **2017**, Abdelmalek Azizi, Abdelkader Zekhnini, Mohammed Taous,  
*On the strongly ambiguous classes of some biquadratic number fields*,  
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- [37] No. 3596397, **2017**, Aissa Derhem, Mohamed Talbi, Mohammed Talbi,  
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- [38] No. 3604560, **2017**, Raimundo Bastos and Pavel Shumyatsky,  
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 (AMS MSC 20D15, 20D25, 20F10, 20F16, 20F18)
- [39] No. 3668767, **2017**, Cyril Demarche, Giancarlo Lucchini Arteche, and Danny Neftin,  
*The Grunwald problem and approximation properties for homogeneous spaces*,  
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 (AMS MSC 11R34, 11E72, 14G05, 14M17)
- [40] No. 3686942, **2018**, Wenbin Guo and Andrej Sergeevich Mamontov,  
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 Sibirsk. Math. Zh. **58** (2017), no. 1, 88–94,  
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*On the intersection of two nilpotent subgroups in a finite group with socle  $\Omega_8^+(2)$ ,  $E_6(2)$  or  $E_7(2)$* ,  
 Siberian Electronic Math. Reports **14** (2017), 1424–1433,  
 (AMS MSC 20D05, 20D06, 20F18)

## Courses

### A. Karl-Franzens-University, Graz

1. *Elliptic and Automorphic Functions*, fall term 1983/84.
2. *Functional Analysis and Spectral Theory*, spring term 1984.
3. *Linear Algebra 1*, fall term 1984/85.
4. *Linear Algebra 2*, spring term 1985.
5. *Algebraic Number Theory*, fall term 1985/86.
6. *Linear Algebra*, spring term 1986.
7. *Analysis 1 (Differential Calculus)*, fall term 1986/87, in 2 groups.
8. *Analysis 2 (Integral Calculus)*, spring term 1987.
9. *Linear Algebra*, fall term 1987/88, in 2 groups.
10. *Analytic Geometry*, spring term 1988.
11. *Higher Algebra*, fall term 1988/89.
12. *Arithmetically Equivalent Number Fields*, spring term 1989.
13. *Modular Functions and Complex Multiplication*, fall term 1989/90.
14. *Voronoi's 1- and 2-Dimensional Unit Algorithms*, spring term 1990.

### B. University of Manitoba, Winnipeg

1. *Galois Cohomology and Class Field Theory*, fall term 1990/91.
2. *Selected Topics on Dihedral Field Extensions*, spring term 1991.