

References

- [1] Juliana Belding, Reinier Bröker, Andreas Enge, and Kristin Lauter. Computing hilbert class polynomials. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 282–295. Springer-Verlag, Berlin-Heidelberg, 2008.
- [2] Richard P. Brent, Pierrick Gaudry, Emmanuel Thomé, and Paul Zimmermann. Faster multiplication in $gf(2)[x]$. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 153–166. Springer-Verlag, Berlin-Heidelberg, 2008.
- [3] Wouter Castryck, Hendrik Hubrechts, and Frederik Vercauteren. Computing zeta functions in families of $c_{a,b}$ curves using deformation. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 296–311. Springer-Verlag, Berlin-Heidelberg, 2008.
- [4] J.E. Cremona. Computing in component groups of elliptic curves. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 118–124. Springer-Verlag, Berlin-Heidelberg, 2008.
- [5] Ernie Croot, Andrew Granville, Robin Pemantle, and Prasad Tetali. Running time predictions for factoring algorithms. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 1–36. Springer-Verlag, Berlin-Heidelberg, 2008.
- [6] Lassina Dembélé and Steve Donnelly. Computing hilbert modular forms over fields with nontrivial class group. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 296–311. Springer-Verlag, Berlin-Heidelberg, 2008.

17-22, 2008), volume 5011 of *LNCS*, pages 371–386. Springer-Verlag, Berlin-Heidelberg, 2008.

- [7] Willemien Ekkelenkamp. Predicting the sieving effort for the number field sieve. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 167–179. Springer-Verlag, Berlin-Heidelberg, 2008.
- [8] Noam D. Elkies. Shimura curve computations via k3 surfaces of néron-severi rank at least 19. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 196–211. Springer-Verlag, Berlin-Heidelberg, 2008.
- [9] Andreas-Stephan Elsenhans and Jörg Jahnel. K3 surfaces of picard rank one and degree two. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 212–225. Springer-Verlag, Berlin-Heidelberg, 2008.
- [10] Tom Fisher. Some improvements to 4-descent on an elliptic curve. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 125–138. Springer-Verlag, Berlin-Heidelberg, 2008.
- [11] David Freeman, Peter Stevenhagen, and Marco Streng. Abelian varieties with prescribed embedding degree. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 60–73. Springer-Verlag, Berlin-Heidelberg, 2008.
- [12] Steven D. Galbraith, Michael Harrison, and David J. Mireles Morales. Efficient hyperelliptic arithmetic using balanced representation for divisors. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 342–356. Springer-Verlag, Berlin-Heidelberg, 2008.

- [13] Edray Goins, Florian Luca, and Alain Togb . On the diophantine equation $x^2 + 2^\alpha 5^\beta 13^\gamma = y^n$. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 430–442. Springer-Verlag, Berlin-Heidelberg, 2008.
- [14] Paul E. Gunnells and Dan Yasaki. Hecke operators and hilbert modular forms. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 387–401. Springer-Verlag, Berlin-Heidelberg, 2008.
- [15] Jorge Jim  ez Urroz. Almost prime orders of cm elliptic curves modulo p . In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 74–87. 2008.
- [16] John W. Jones and David P. Roberts. Number fields ramified at one prime. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 226–239. Springer-Verlag, Berlin-Heidelberg, 2008.
- [17] Koray Karabina and Edlyn Teske. On prime-order elliptic curves with embedding degrees $k = 3, 4$, and 6 . In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 102–117. Springer-Verlag, Berlin-Heidelberg, 2008.
- [18] Kiran S. Kedlaya and Andrew V. Sutherland. Computing l -series of hyperelliptic curves. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 312–326. Springer-Verlag, Berlin-Heidelberg, 2008.
- [19] Jeong Han Kim, Ravi Montenegro, Yuval Peres, and Prasad Tetali. A birthday paradox for markov chains, with an optimal bound for colli-

- sion in the pollard rho algorithm for discrete logarithm. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 402–415. Springer-Verlag, Berlin-Heidelberg, 2008.
- [20] Remke Kloosterman. Point counting on singular hypersurfaces. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 327–341. Springer-Verlag, Berlin-Heidelberg, 2008.
 - [21] Alar Leibak. An explicit construction of initial perfect quadratic forms over some families of totally real number fields. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 240–252. Springer-Verlag, Berlin-Heidelberg, 2008.
 - [22] Peter L. Montgomery and Alexander Kruppa. Improved stage 2 to $p \pm 1$ factoring algorithms. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 180–195. Springer-Verlag, Berlin-Heidelberg, 2008.
 - [23] Sami Omar. Non-vanishing of dirichlet l -functions at the central point. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 443–453. Springer-Verlag, Berlin-Heidelberg, 2008.
 - [24] Pieter Rozenhart and Renate Scheidler. Tabulation of cubic function fields with imaginary and unusual hessian. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 357–370. Springer-Verlag, Berlin-Heidelberg, 2008.
 - [25] Jonathan W. Sands and Brett A. Tangedal. Functorial properties of stark units in multiquadratic extensions. In Alfred J. van der Poorten

and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 253–267. Springer-Verlag, Berlin-Heidelberg, 2008.

- [26] R.E. Sawilla, A.K. Silvester, and H.C. Williams. A new look at an old equation. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 37–59. Springer-Verlag, Berlin-Heidelberg, 2008.
- [27] Andrew Shallue. An improved multi-set algorithm for the dense subset sum problem. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 416–429. Springer-Verlag, Berlin-Heidelberg, 2008.
- [28] Katsuyuki Takashima. Efficiently computable distortion maps for supersingular curves. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 88–101. Springer-Verlag, Berlin-Heidelberg, 2008.
- [29] Thotsaphon Thongjunthug. Computing a lower bound for the canonical height on elliptic curves over totally real number fields. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 139–152. Springer-Verlag, Berlin-Heidelberg, 2008.
- [30] John Voight. Enumeration of totally real number fields of bounded root discriminant. In Alfred J. van der Poorten and Andreas Stein, editors, *Proceedings of the 8th International Symposium on Algorithmic Number Theory, ANTS'2008 (Banff, Canada, May 17-22, 2008)*, volume 5011 of *LNCS*, pages 268–281. Springer-Verlag, Berlin-Heidelberg, 2008.