

Bibliography for Wessex Seminar

J.H. Davenport — J.H.Davenport@bath.ac.uk

23 May 2012

References

- [AS64] M. Abramowitz and I. Stegun. Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables, 9th printing. *US Government Printing Office*, 1964.
- [BBDP07] J.C. Beaumont, R.J. Bradford, J.H. Davenport, and N. Phisanbut. Testing Elementary Function Identities Using CAD. *AAECC*, 18:513–543, 2007.
- [BCD⁺02] R.J. Bradford, R.M. Corless, J.H. Davenport, D.J. Jeffrey, and S.M. Watt. Reasoning about the Elementary Functions of Complex Analysis. *Annals of Mathematics and Artificial Intelligence*, 36:303–318, 2002.
- [BD07] C.W. Brown and J.H. Davenport. The Complexity of Quantifier Elimination and Cylindrical Algebraic Decomposition. In C.W. Brown, editor, *Proceedings ISSAC 2007*, pages 54–60, 2007.
- [Bro03] C.W. Brown. QEPCAD B: a program for computing with semi-algebraic sets using CADs. *ACM SIGSAM Bulletin* 4, 37:97–108, 2003.
- [Bro12] C.W. Brown. Re: Query about QEPCAD. *Personal Communication to David Wilson*, 2012.
- [BRSEDS12] S. Basu, M.-F. Roy, M. Safey El Din, and É. Schost. A baby step-giant step roadmap algorithm for general algebraic sets. <http://arxiv.org/abs/1201.6439>, 2012.
- [CDJW00] R.M. Corless, J.H. Davenport, D.J. Jeffrey, and S.M. Watt. According to Abramowitz and Stegun. *SIGSAM Bulletin* 2, 34:58–65, 2000.
- [CH91] G.E. Collins and H. Hong. Partial Cylindrical Algebraic Decomposition for Quantifier Elimination. *J. Symbolic Comp.*, 12:299–328, 1991.

- [CJ96] R.M. Corless and D.J. Jeffrey. The Unwinding Number. *SIGSAM Bulletin* 2, 30:28–35, 1996.
- [CMMXY09] C. Chen, M. Moreno Maza, B. Xia, and L. Yang. Computing Cylindrical Algebraic Decomposition via Triangular Decomposition. In J. May, editor, *Proceedings ISSAC 2009*, pages 95–102, 2009.
- [Cou05] R. (Ed.) Cousot. Verification, Model Checking, and Abstract Interpretation. *Springer Lecture Notes in Computer Science 3385*, 2005.
- [DH88] J.H. Davenport and J. Heintz. Real Quantifier Elimination is Doubly Exponential. *J. Symbolic Comp.*, 5:29–35, 1988.
- [Hen74] P. Henrici. Applied and Computational Complex Analysis I. *Wiley*, 1974.
- [Hon91] H. Hong. Comparison of several decision algorithms for the existential theory of the reals. Technical Report 91-41, 1991.
- [Kah87] W. Kahan. Branch Cuts for Complex Elementary Functions. In A. Iserles and M.J.D. Powell, editors, *Proceedings The State of Art in Numerical Analysis*, pages 165–211, 1987.
- [Mar05] M. Martel. An Overview of Semantics for the Validation of Numerical Programs. In *Proceedings Verification*, pages 59–77, 2005.
- [Nat10] National Institute for Standards and Technology. The NIST Digital Library of Mathematical Functions. <http://dlmf.nist.gov>, 2010.
- [PBD10] N. Phisanbut, R.J. Bradford, and J.H. Davenport. Geometry of Branch Cuts. *Communications in Computer Algebra*, 44:132–135, 2010.
- [Phi11] N. Phisanbut. *Practical Simplification of Elementary Functions using Cylindrical Algebraic Decomposition*. PhD thesis, University of Bath, 2011.
- [PJ09] G.O. Passmore and P.B. Jackson. Combined Decision Techniques for the Existential Theory of the Reals. In J. Carette *et al.*, editor, *Proceedings Intelligent Computer Mathematics*, pages 122–137, 2009.
- [Ter12] D. Terr. Math is Amazingly Powerful. http://www.mathamazement.com/Lessons/Pre-Calculus/05_Analytic-Trigonometry/sum-and-difference-formulas.html, 2012.