1047-11-370 Peter Paule* (ppaule@risc.uni-linz.ac.at), Research Institute for Symbolic Computation, (RISC), Johannes Kepler University Linz, A-4040 Linz, Austria. A Proof of Sellers' Conjecture.
In 1984 G.E. Andrews published an AMS Memoir on generalized Frobenius partitions. Based on an elegant product representation for the generating function, Andrews proved a congruence relation modulo 5 for 2-colored Frobenius partitions. In 1994 J. Sellers extended Andrews' result to a congruence conjecture modulo arbitrary powers of 5. In 2002 J. Sellers and D. Eichhorn proved the conjecture for the powers 1, 2, 3, and 4. This talk reports on joint work with Silviu Radu (RISC) who found a computational way to settle Sellers' conjecture for all powers of 5. (Received February 02, 2009)