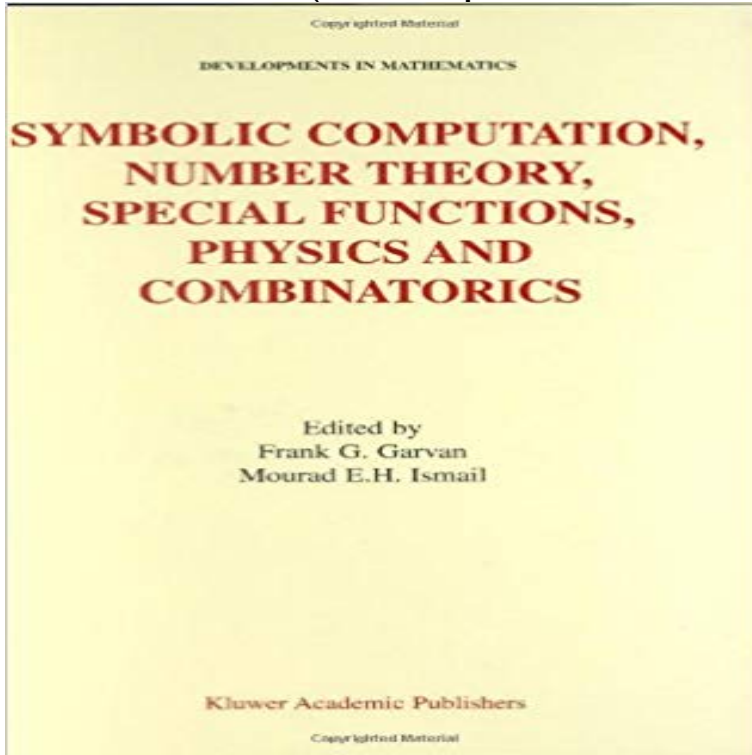


# Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics (Developments in Mathematics)



These are the proceedings of the conference Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics held at the Department of Mathematics, University of Florida, Gainesville, from November 11 to 13, 1999. The main emphasis of the conference was Computer Algebra (i. e. symbolic computation) and how it related to the fields of Number Theory, Special Functions, Physics and Combinatorics. A subject that is common to all of these fields is q-series. We brought together those who do symbolic computation with q-series and those who need q-series in cluding workers in Physics and Combinatorics. The goal of the conference was to inform mathematicians and physicists who use q-series of the latest developments in the field of q-series and especially how symbolic computa tion has aided these developments. Over 60 people were invited to participate in the conference. We ended up having 45 participants at the conference, including six one hour plenary speakers and 28 half hour speakers. There were talks in all the areas we were hoping for. There were three software demonstrations.

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Development in Mathematics 4 (2001) 199--221. **[math/0009130] Hankel determinants of Eisenstein series - arXiv** Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics held at the Department of Mathematics, University of Florida, mathematicians and physicists who use q-series of the latest developments in the **A Computer Proof of a Polynomial Identity Implying a Partition** Amer. Math. Soc. Bhatnagar, G. A Multivariable View of One-Variable q-Series. In Symbolic Computation, Number Theory, Special Functions, Physics and **Paule - RISC-Linz** Developments in Mathematics VOLUME 4 Series Editor: Krishnaswami Alladi, Number Theory, Special Functions, Physics and Combinatorics Edited. **RogersRamanujan computer searches - ScienceDirect** **Symbolic Computation, Number Theory, Special Functions, Physics** Department of Mathematics, University of Florida, Gainesville, Florida 32611. 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