Workshop on

Function Fields of one Variable over Finite Fields, Drinfeld Modules and Coding Theory

Institute of Experimental Mathematics, University of Essen

3-7 June, 1998

Program:

Wednesday, June 3rd

9.30 h - 10.30 h	An Introduction to Drinfeld Modules I
	Rafiq Omar, University of the Western Cape, South Africa.

- 11.00 h 12.00 h $\,$ The weight hierarchy of linear codes N.N.
- 15.00 h 16.00 h An Introduction to Drinfeld Modules II Rafiq Omar, University of the Western Cape, South Africa.
- 16.30 h 17.30 h Generalized Hamming weights of Reed-Muller codes I Florian Breuer, University Stellenbosch, South Africa.

Thursday, June 4th

- 9.30 h 10.30 h An Introduction to Drinfeld Modules III Arnold Keet, University of South Africa, Pretoria.
- 11.00 h 12.00 h Generalized Hamming weights of Reed-Muller codes II Brink van der Merwe, University Stellenbosch, South Africa.
- 15.00 h 16.00 h A characterisation of order p automorphisms of the p-adic open disc Barry Green, University Stellenbosch, South Africa.
- 16.30 h 17.30 h Curves with infinite fundamental group Gerhard Frey, IEM, University Essen, Germany.

Friday, June 5th

- 9.30 h 10.30 h Reduction Theory and Drinfeld Modules over Finite Fields I Barry Green, University Stellenbosch, South Africa.
- 11.00 h 12.00 h Codes and Artin-Schreier extensions of function fields Henning Stichtenoth, University Essen, Germany.
- 15.00 h 16.00 h Reduction Theory and Drinfeld Modules over Finite Fields II Brink van der Merwe, University Stellenbosch, South Africa.
- 16.30 h 17.30 h Constructing function fields with many rational places from subcodes of RM codes I Ilia Aleshnikov, University Essen, Germany.

Saturday, June 6th

- 9.30 h 10.30 h Drinfeld Modules and Explicit Class Field Theory (An Overview)
 Hans-Georg Rück, IEM, University Essen, Germany.
- 11.00 h 12.00 h Constructing function fields with many rational places from subcodes of RM codes II Emir Nurbegovic, University Essen, Germany.
- 15.00 h 16.00 h Drinfeld Modules, Coding Theory and Explicit Equations for Drinfeld Modular Curves
 Annika Bruns, IEM, University Essen, Germany.
- 16.30 h 17.30 h Homology of Drinfeld Modular Curves
 Matthias Traulsen, IEM, University Essen, Germany.

Sunday, June 7th

- 9.30 h 10.30 h *L*-series and Heegner Points of Drinfeld Modular Curves Hans-Georg Rück, IEM, University Essen, Germany.
- 11.00 h 12.00 h Résumé