Conformal Field Theory

PROGRAMME

Wednesday 10 July
9.00 am          PROGRAMME ORGANIZATION
9.30 am Simon Donaldson  Conformal Field Theory and Topological Calculations
11.15 am Jean-Bernard Zuber  Common Features in CFT and Integrable Models
5.00 pm Graeme Segal  Conformal Field Theory
6.30 pm          RECEPTION IN GREY COLLEGE

Thursday 11 July
9.15 am Vaughan Jones  Knot Polynomials and Commuting Transfer Matrices
11.15 am Vincent Pasquier  Quantization Conditions for Closed Toda Lattices
2 pm – 4pm  Afternoon Session on Integrable Deformations of Conformal Theories (Giuseppe Mussardo)
5.15 pm Richard Borcherds  Moonshine and Superalgebras

Friday 12 July
9.15 am Edward Corrigan  Aspects of Affine Toda Field Theory
11.15 am Charles Thorn  Reformulation of String Theory with the 1/N-Expansion
2.30 pm          VISIT TO DURHAM CATHEDRAL
5.15 pm Adrian Ocneanu  Operator Algebras and Topological Quantum Field Theories
9.00 pm          PUB QUIZ IN GREY COLLEGE BAR

Saturday 13 July
9.15 am Louis Kauffman  $q$-deformed Spin Networks and the Turaev-Viro Invariant
11.15 am Jean-Loup Gervais  Quantum Group Approach to 2D Gravity
5.15 pm Michael Thaddeus  Cohomology of Moduli of Vector Bundles and Verlinde Rules

Sunday 14 July

OUTING TO LINDISFARNE

Monday 15 July
9.15 am Hubert Saleur  Algebraic Reformulation of the 4 Colour Problem
11.15 am Werner Nahm  New $W$-algebras and their Representations
2 pm – 4 pm  Afternoon Session on Topology & Quantum Groups (Louis Kauffman)
5.15 pm Anthony Wassermann  Conformal Field Theory and von Neumann Algebras

Tuesday 16 July
9.15 am Sir Michael Atiyah  Duality for Calabi-Yau Manifolds
11.15 am Krzysztof Gawedzki  $SL(2, \mathbb{R})/O(2)$ coset CFT
5.15 pm Tetsuji Miwa  Affine Crystals and Vertex Models

Wednesday 17 July
9.15 am Greg Moore  Two-Dimensional Gravity
11.15 am Hans Wenzl  Braid Representations and 3-Manifolds
2 pm – 4 pm  Afternoon Session on 2D Gravity (Paul Ginsparg)
5.15 pm Lisa Jeffrey  Chern-Simons Path Integrals and the Symplectic Action Functional
7.30 pm          CONFERENCE DINNER

Thursday 18 July
9.15 am Herman Verlinde  String Scattering on a Black Hole
11.15 am Sander Bais  Non-abelian Anyons
5.15 pm Nick Warner  $N = 2$ Supersymmetric Integrable Landau-Ginsburg Models
“Unofficial” Sessions

Thursday 11 July: Integrable Deformations of Conformal Theories
Organiser: G. Mussardo
Speakers: P. Dorey, D. Bernard and Q. Y. Park

Saturday 13 July: 2-D Gravity and Topology of Moduli Space
Speaker: G. Segal

Monday 13 July: Knots and Quantum Groups
Organiser: L. Kauffman
Speakers: J-L. Gervais, D. Majid and B. Westbury

Tuesday 16 July: Three Dimensional Manifolds
Organiser: J. Barrett
Speakers: L. Kauffman, L. Jeffrey and J. Barrett.

Wednesday 17 July: Elementary Introduction to Matrix Models and 2-D Gravity
Speaker: P. Ginsparg