

LMS Durham Symposium on  
Vector Bundles in Algebraic Geometry  
Thursday 22nd July - Sunday 1st August 1993

ALL LECTURES WILL TAKE PLACE IN CG93

PROGRAMME - FRIDAY 23rd JULY

9.30 a.m. S.K. Donaldson - *Vector Bundles on surfaces and 4-manifold invariants I*

10.30 - 11.00 a.m. COFFEE - Room CM2 11

11.30 a.m. K. Zuo - *Factorisation of nonrigid Zariski dense representations of  $\pi_n$  of algebraic varieties.*

1.00 p.m. LUNCH Grey College

3.00 p.m. K. Ueno - *On conformal field theory I*

4.00 - 4.30 p.m. TEA - Room CM2 11

5.00 p.m. A. Schofield - *Lie algebras from vector bundles on curves.*

6.30 p.m. SHERRY RECEPTION - Junior Common Room

7.00 p.m. DINNER Grey College

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PROGRAMME - SATURDAY 24th JULY

9.30 a.m. S.K. Donaldson - *Vector bundles on surfaces and 4-manifold invariants II.*

10.30 - 11.00 a.m. COFFEE - Room CM2 11

11.30 a.m. S. Mukai - *Brill-Noether theory of stable vector bundles.*

1.00 p.m. LUNCH Grey College

3.00 p.m. S.B. Bradlow - *Stable holomorphic pairs I.*

4.00 - 4.30 p.m. TEA - Room CM2 11

5.00 p.m. L.C. Jeffrey - *Symplectic geometry and Witten's nonabelian localisation theorem.*

7.00 p.m. DINNER Grey College

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PROGRAMME - SUNDAY 25th JULY

9.30 a.m. K. Ueno - *On conformal field theory II.*

10.30 - 11.00 a.m. COFFEE - Room CM2 11

11.30 a.m. J. Le Potier - *Faisceaux semi-stables de dimension 1 sur le plan projectif.*

1.00 p.m. LUNCH Grey College

3.00 p.m. S.B. Bradlow - *Stable holomorphic pairs II.*

4.00 - 4.30 p.m. TEA - Room CM2 11

5.00 p.m. I.V. Artamkin - *On deformation of sheaves on algebraic surfaces.*

7.00 p.m. DINNER Grey College

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PROGRAMME - MONDAY 26th JULY

9.30 a.m. J. Le Potier - *Systèmes cohérents: exemples et applications.*

10.30 - 11.00 a.m. COFFEE - Room CM2 11

11.30 a.m. O. Garcia-Prada - *Moduli spaces of stable pairs.*

1.00 p.m. LUNCH Grey College

2.00 p.m. PHOTOGRAPH - Grey College Steps.

3.00 p.m. K. Hulek - *The Horrocks-Mumford bundle I.*

4.00 - 4.30 p.m. TEA - Room CM2 11

5.00 p.m. G. D. Daskalopoulos - *Degeneration of moduli of vector bundles and stable pairs.*

7.00 p.m. DINNER Grey College

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TUESDAY 27th JULY - All day trip to HOLY ISLAND

(Departing Grey College approximately 9.15 a.m. and arriving back at Grey approximately 6.15 p.m.)

PROGRAMME - WEDNESDAY 28th JULY

- 9.30 a.m. M.S. Narasimhan - *Infinite grassmannians and moduli spaces of principal bundles on curves I.*
- 10.30 - 11.00 a.m. COFFEE - Room CM2 11
- 11.30 a.m. R.A. Wentworth - *Gromov invariants for holomorphic maps to grassmannians.*
- 1.00 p.m. LUNCH Grey College
- 3.00 p.m. K. Hulek - *The Horrocks-Mumford bundle II.*
- 4.00 - 4.30 p.m. TEA - Room CM2 11
- 5.00 p.m. V. Balaji - *Picard sheaves and deformation of moduli of pairs.*
- 7.00 p.m. DINNER Grey College

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PROGRAMME - THURSDAY 29th JULY

- 9.30 a.m. M.S. Narasimhan - *Infinite grassmannians and moduli spaces of principal bundles on curves II.*
- 10.30 - 11.00 a.m. COFFEE - Room CM2 11
- 11.30 a.m. A.N. Tyurin - *On canonical and almost canonical polynomials of an algebraic surface I.*
- 1.00 p.m. LUNCH Grey College
- Afternoon: Durham Cathedral - depart Grey College 2.00 p.m.
- 7.00 p.m. for 7.30 p.m. SPECIAL DINNER Grey College

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PROGRAMME - FRIDAY 30th JULY

- 9.30 a.m. A.N. Tyurin - *On canonical and almost canonical polynomials of an algebraic surface II.*
- 10.30 - 11.00 a.m. COFFEE - Room CM2 11
- 11.30 a.m. Z. Ran - *Calculus on moduli spaces.*
- 1.00 p.m. LUNCH Grey College
- 3.00 p.m. G. Ottaviani - *Instanton bundles on  $P^{2n+1}$*
- 4.00 - 4.30 p.m. TEA - Room CM2 11
- 5.00 p.m. C. Walter - *Irreducible components of the moduli stack of coherent sheaves on  $P^2$ .*
- 7.00 p.m. DINNER Grey College

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PROGRAMME - SATURDAY 31st JULY

- 9.30 a.m. A.D. King - *Tilting bundles on rational surfaces.*
- 10.30 - 11.00 a.m. COFFEE - Room CM2 11
- 11.30 a.m. To be arranged
- 1.00 p.m. LUNCH Grey College
- 3.00 p.m. J.-M. Drezet - *Exceptional bundles and moduli spaces of stable sheaves on  $P^n$ .*
- 4.00 - 4.30 p.m. TEA - Room CM2 11
- 5.00 p.m. To be arranged
- 7.00 p.m. DINNER Grey College

End of Programme.