PHYSICS DEPARTMENT SEMINARS

(formerly Theoretical Physics Seminars)

18 Oct 1965	Dr J M Charap (QMC)
	Report on the Oxford Conference on elementary particle physics
25 Oct 1965	Prof M E Fisher (King's)
	A new approach to statistical mechanics
1 Nov 1965	Dr J P Elliott (Sussex)
	Charge independent pairing correlations in nuclei
8 Nov 1965	Prof A B Pippard (Cambridge)
	Conduction electrons in strong magnetic field
15 Nov 1965	
	Realistic forces and finite nuclei
22 Nov 1965	Dr T W B Kibble (Imperial)
	Broken symmetries
29 Nov 1965	Prof G Gamow (Colorado and Cambridge)
	Cosmological theories
6 Dec 1965	Prof D Bohm (Birkbeck)
	Collective coordinates in phase space
13 Dec 1965	Dr D J Rowe (Harwell)
	Time-dependent Hartree-Fock theory and vibrational models
17 Jan 1966	Prof J M Ziman (Bristol)
	Band structure: the Greenian method and the t-matrix
24 Jan 1966	Dr T P McLean (Malvern)
	Lasers and their radiation
31 Jan 1966	Prof E J Squires (Durham)
	The bootstrap theory of elementary particles
7 Feb 1966	Prof G Feldman (Johns Hopkins and Imperial)
	Current commutators and coupling constants
14 Feb 1966	Dr W E Parry (Oxford)
	Momentum distribution in liquid helium
21 Feb 1966	Dr O Penrose (Imperial)
	Inequalities for the ground state of an interacting Bose system
7 Mar 1966	Dr PK Kabir (Rutherford)
	μ-mesonic molecules
14 Mar 1966	Prof L R B Elton (Battersea)
	Towards a realistic shell model potential
21 Mar 1966	Prof I M Khalatnikov (Moscow)
	Stability of a lattice of vortices
2 May 1966	Dr G H Burkhardt (Birmingham)
	High energy scattering on deuterons
9 May 1966	Prof L M Falicov (Chicago & Cambridge)
	Theory of the de Haas-van Alphen effect
16 May 1966	Prof H Jones (Imperial)
	Electrons in nearly periodic fields
23 May 1966	Dr A M Lane (Harwell)
	A comprehensive theory of nuclear reactions
6 Jun 1966	Prof P C Martin (Harvard & Paris)
	Microscopic theory of superfluidity

10 Oct 1966	Prof P G de Gennes (Paris)
10 Oct 1500	Nuclear magnetic resonance in type II superconductors
17 Oct 1966	Prof D J Thouless (Birmingham)
17 Oct 1500	Solid ³ He as an ideal Heisenberg anti-ferromagnet
24 Oct 1966	Dr R F Streater (Imperial)
210011500	Canonical quantisation
31 Oct 1966	Dr A J Leggett (Oxford)
51 000 1500	Theory of a superfluid Fermi liquid
7 Nov 1966	Prof E H Sondheimer (Westfield)
, 1101 1500	Anisotropic electron scattering in metals
14 Nov 1966	Prof L Castillejo (Oxford and UCL)
11107 1000	Angular distribution in nuclear reactions
21 Nov 1966	Dr S Doniach (Imperial)
	Spin fluctuations in Fermi liquids
28 Nov 1966	Dr Hong-Mo Chan (CERN)
	High energy production processes
5 Dec 1966	Prof R J Blin-Stoyle (Sussex)
	Nuclear β-decay: implications of partial coservation of axial current
12 Dec 1966	Prof G H A Cole (Hull)
	Theory of liquids in equilibrium
16 Jan 1967	Prof Sir Nevill Mott (Cambridge)
	The nature of wave functions of electrons in non-periodic lattices
23 Jan 1967	Dr R J N Phillips (Harwell)
	Regge poles in high energy scattering
30 Jan 1967	Dr M H Macfarlane (Argonne & Oxford)
	Quasi-particle approximations in the nuclear shell model
6 Feb 1967	Prof S F Edwards (Manchester)
	Topological problems in statistical mechanics
13 Feb 1967	Dr J G Taylor (Oxford)
	A survey of bootstrap methods in particle physics
20 Feb 1967	Pof D Bohm (Birkbeck)
	Collective treatment of liquid helium
27 Feb 1967	Prof M Bailyn (Northwestern & Leeds)
	Magnetic impurities: the Kondo effect
6 Mar 1967	Dr T W B Kibble (Imperial)
	Effect of intense photon beams on electrons
13 Mar 1967	Dr R B Stinchcombe (Oxford)
	Statistical mechanics of ferromagnetism
20 Mar 1967	Dr PV Landshoff (Cambridge)
	Need identical particles be fermions or bosons?

16 Oct 1967	Prof PT Matthews (Imperial)
	Covariant phase shift analysis and Regge poles
23 Oct 1967	Prof PW Anderson (Cambridge)
	Ground state of a magnetic impurity in a metal
30 Oct 1967	Dr L J Sham (QMC)
	The inhomogeneous electron gas
6 Nov 1967	Prof M A Ruderman (NYU & Imperial)
	White dwarfs and elementary particle physics
13 Nov 1967	Prof S Deser (Brandeis & paris)
	High energy sum rules and current algebra
20 Nov 1967	Prof R Orbach (UCLA and Imperial)
	Anomalous phonon life times in solids
27 Nov 1967	Prof S A Bludman (Pennsylvania & Imperial)
	Non-leptonic weak interactions
4 Dec 1967	Dr D M Brink (Oxford)
	Semi-classical approximations in scattering theory
11 Dec 1967	Prof F A E Pirani (King's)
	Gravitational waves
18 Dec 1967	Prof V L Ginzburg (Moscow)
	Some speculations on superconductivity and superfluidity
11 Jan 1968	Prof G Heber (Dresden)
	Functional methods in field theory
22 Jan 1968	Prof D Ruelle (Paris)
	Lattice systems and the Gibbs phase rule
29 Jan 1968	Dr J S Bell (CERN)
	Kinds of commutator
5 Feb 1968	Dr O Penrose (Imperial)
	Phase transitions at complex fugacities
12 Feb 1968	Prof E P Wohlfarth (Imperial)
	Itinerant electrons and spin waves in metals
19 Feb 1968	Prof E Leader (Westfield)
	Conspiracy, evasion and daughters
26 Feb 1968	Dr B L Györffy (QMC)
	Wave-like propogation in non-linear optics
4 Mar 1968	Prof S B Treiman (Princeton & Cambridge)
	Angular behaviour of scattering at high energies
11 Mar 1968	Prof B Mottelson (Copenhagen)
	Pairing effects in nuclei
18 Mar 1968	Prof H Fröhlich (Liverpool)
	Microscopic derivation of the equations of hydrodynamics
6 May 1968	Dr K J Barnes (Imperial)
	Current algebra and form factors
13 May 1968	Dr R J Elliott (Oxford)
20.15 10.00	Interaction between spin waves
20 May 1968	Prof R Penrose (Birkbeck)
DE 16 4000	Twistors
27 May 1968	Prof C A Coulson (Oxford)
	Commutator relations and the wave equation

14 Oct 1968	Prof N H March (Sheffield)
	Asymptotic form of correlation functions in classical and quantum fluids
21 Oct 1968	Prof J C Polkinghorne (Cambridge)
	Recent developments in Regge theory
28 Oct 1968	Prof J S Chisholm (Canterbury)
	Padé approximants and their applications
4 Nov 1968	Dr T W B Kibble (Imperial)
11 NI 1000	Coherent states and infra-red divergences
11 Nov 1968	
10 NI 10C0	Theory of phonons in liquids
18 Nov 1968	Dr H J Spencer (Imperial)
25 Nov 1968	Spin representations and quantum field theory
25 INOV 1906	
2 Dec 1968	Dispersion theory of the Kondo effect
2 Dec 1900	Prof J R Taylor (Colorado & Imperial)
9 Dec 1968	Must particles be bosons or fermions?
3 Dec 1300	Prof S Engelsberg (Massachusetts & Imperial)
12 Ion 1060	Spin fluctuations in nearly magnetic systems Prof F Calogero (Rome)
13 Jan 1969	0 \
20 Jan 1969	Variable phase approach to potential scattering Dr V Heine (Cambridge)
20 Jan 1909	Quantum theory of cohesion and struscture of metals
27 Jan 1969	Prof R E Cutkosky (Carnegie & Cambridge)
27 Jan 1909	Theory of analysis of scattering data
3 Feb 1969	Prof R F Streater (Bedford)
5 1 60 1505	Symmetry breakdown and scattering in the Heisenberg ferromagnet
10 Feb 1969	Prof M Wortis (Illinois & Imperial)
10 1 (0 1505	Correlations and scaling in the 3-dimensional Ising model
17 Feb 1969	Dr B Renner (Cambridge)
17 1 00 1505	Current algebra and chiral SU(3) symmetry
24 Feb 1969	Prof G Lüders (Göttingen)
211001000	Critical fields in superconductors
3 Mar 1969	Dr K J Barnes (Imperial)
5 1viai 1505	Non-linear pion Lagrangians
10 Mar 1969	Dr A Huber (Birmingham)
10 1,101 1505	Variational principles and stability in quantum statistical mechanics
17 Mar 1969	Prof J S Blair (Seattle & Surrey)
1, 1,101 15 05	Proton isobaric analogue resonances
24 Mar 1969	Prof D Amati (Orsay)
	Some remarks about duality
28 Apr 1969	Dr R Delbourgo (Imperial)
	Renormalisation of non-linear Lagrangians
5 May 1969	Prof G Feldman (Johns Hopkins & Imperial)
J	Covariant angular momentum expansions
12 May 1969	<u> </u>
J	Use and misuse of Green's function techniques in transport theory
19 May 1969	
<i>J</i> -	Dynamical scaling of phase transitions

19 Oct 1970	Prof E R Caianello (Naples)
	Self-consistent derivation of masses in field theory
26 Oct 1970	Dr R B Stinchcombe (Oxford)
	Magnetic excitations
2 Nov 1970	Dr R B Jones (QMC)
	A model of chiral symmetry breaKING
9 Nov 1970	Prof D J Thouless (Birmingham)
	Ising model with long range interactions
16 Nov 1970	Dr A J Macfarlane (Cambridge)
	Field algebra and weak interactions
23 Nov 1970	Prof W Harrison (Stanford & Cambridge)
	Generalisations of pseudo-potential methods
30 Nov 1970	Dr C J Isham (Imperial)
	Spontaneous breaking of conformal symmetry
7 Dec 1970	Prof A L Fetter (Stanford & Cambridge)
	Superfluid vortices
14 Dec 1970	Dr M Marinaro (Naples and QMC)
	Renormalisation through analytic continuation
18 Jan 1971	Dr A J Leggett (Sussex)
	Suerfluidity in liquids and possibly in solids
25 Jan 1971	Dr D I Olive (Cambridge)
	Veneziano models of hadron physics
1 Feb 1971	Dr D M Edwards (Imperial)
	Spin waves in transition metals
8 Feb 1971	Dr D M Brink (Oxford)
	The structure of light nuclei
15 Feb 1971	Dr R Delbourgo (Imperial)
	Renormalisation of rational Lagrangians
22 Feb 1971	Prof T Soda (Tokyo)
	Sum rules and their application to the problem of
	liquid helium
1 Mar 1971	Dr C J Isham (Imperial)
1 1/101 10/1	Quantum electrodynamics with gravity
8 Mar 1971	Dr A Coniglio (Naples and King's)
0 1,101 10,1	Universality and scaling laws
15 Mar 1971	Dr J B Pendry (Cambridge)
10 1/101 10/1	Electron correlations at metallic densities
22 Mar 1971	Prof E C Zeeman (Warwick)
22 War 1571	Applications of catastrophe theory
26 Apr 1971	Prof H Lehmann (Hamburg)
2071pi 1371	Properties of superpropagators in non-polynomial Lagrangian field theories
3 May 1971	Dr M Marinaro (Naples & QMC)
5 1v1uy 15/1	Different kinds of condensation in boson systems
10 May 1071	Dr Hong-Mo Chan (CERN)
10 Way 13/1	The decay pattern of high spin resonances
	The decay pattern of high spiritesonances

18 Oct 1971	Dr B U Felderhof (QMC)
	Non-equilibrium statistical mechanics of one-dimensional binary systems
25 Oct 1971	Prof C Møller (Copenhagen)
	Thermodynamic potentials in the theory of relativity
1 Nov 1971	Prof L Radicati (Pisa & Oxford)
	Symmetry breaking in electromagnetic and weak interactions
8 Nov 1971	Prof S Mandelstam (Berkeley & Imperial)
	Fermions in dual resonance models
15 Nov 1971	Prof G V Chester (Cornell & Sussex)
	Wave functions for solid helium
22 Nov 1971	Prof E Leader (Westfield)
	A new kinematic variable for high energy scattering
29 Nov 1971	Prof M J Buckingham (Western Australia & Cambridge)
	Thermodynamics of critical phenomena
6 Dec 1971	Prof S F Edwards (Manchester)
	Generalisations of the formalism of quantum mechanics, with applications to
disorde	ered systems
17 Jan 1972	Prof J K Percus (NYU & MHMS)
	The reduced density matrix approach
24 Jan 1972	Prof J R Fulco (Santa Barbara)
	Unitary models of the Pomeron
31 Jan 1972	Prof J C Polkinghorne (Cambridge)
	Deep inelastic scattering
14 Feb 1972	Prof R F Streater (Bedford)
	Fermi particles associated with a two-dimensional boson field
21 Feb 1972	Prof J G Taylor (King's)
	Recent developments in non-polynomial Lagrangians
28 Feb 1972	Dr C J Isham (Imperial)
	Quantisation and gravity
6 Mar 1972	Dr S Gaunt (King's)
	Scaling laws and the magnetic equation of state
13 Mar 1972	Prof J Bernstein (Stevens Institute & Oxford)
	Symmetry principles in β -decay and second class currents
20 Mar 1972	Prof P W Anderson (Cambridge)
	Theory of localisability: a new branch of many-body theory
24 Apr 1972	Prof S Deser (Brandeis & Paris)
	Massless limit of massive electrodynamics
1 May 1972	Dr Chan Hong-Mo (Rutherford)
	The many-body problem in strong interactions
8 May 1972	Prof Sir Rudolf Peierls (Oxford)
	Phase transitions in 1, 2 and 3 dimensions
15 May 1972	Prof F J Dyson (Princeton)
	Neutron capture levels and error-correcing codes
22 May 1972	Dr R Delbourgo (Imperial)
- - 10-0	Renormalisation of a weak interaction model
5 Jun 1972	Dr T P McLean (Malvern)
	I aser-modulated electrons

16 Oct 1972	Prof J G Valatin (QMC)
22.0 . 40.72	Some highlights of the Dirac Symposium
23 Oct 1972	Dr A J Macfarlane (Cambridge)
20.0 . 1072	Symmetry predictions for inclusive reactions
30 Oct 1972	Dr A J Leggett
C.N. 4050	A new phase transition in liquid He ³
6 Nov 1972	Prof Elliott H Lieb (MIT & Paris)
	Thermodynamics of the two level laser model
13 Nov 1972	Dr J C Taylor (Oxford)
	Unified theory of weak and electromagnetic interactions
20 Nov 1972	Prof A Brooks Harris (Pennsylvania & Oxford)
	Spin waves in Heisenberg magnets
15 Jan 1973	Dr D J Wallace (Southampton)
	Feynman graph methods in critical phenomena
22 Jan 1973	Prof R Penrose (Birkbeck)
	Twistors and quantum electrodynamics
29 Jan 1973	Dr S Simons (QMC)
	Reduced thermal conductivity of dielectrics
5 Feb 1973	Prof T L Trueman (Brookhaven & Oxford)
	Short distance behaviour in a massive Thirring model
12 Feb 1973	Dr J Goldstone (Cambridge)
	Quantum dynamics of the massless string
19 Feb 1973	Prof N H March (Imperial)
	Concentration fluctuations in liquid metal alloys
5 Mar 1973	Prof N G van Kampen (Utrecht)
	Linear response theory
12 Mar 1973	Prof G Rickayzen (Kent)
	Superconductivity in one and two dimensions
19 Mar 1973	Dr R B Jones (QMC)
	Baxter states and XY model
30 Apr 1973	Prof H N V Temperley (Swansea)
	The Ising model and beyond
7 May 1973	Prof T W B Kibble (Imperial)
	Spontaneously broken gauge theories and renormalisation
14 May 1973	Prof PT Landsberg (Southampton)
	Some problems in relativistic statistical mechanics
21 May 1973	Dr J Rae (QMC)
	Recent developments in Hamiltonian dynamics
4 Jun 1973	Dr C J Isham (Imperial)
	Internal symmetry extensions of garvitational type Lagrangians

15 Oct 1973	Dr L Peliti (QMC & Rome) Renormalisation group and equation of states near the critical point
22 Oct 1973	Prof R F Streater (Bedford)
22 OCt 1973	Currents and fields in the Thirring model
29 Oct 1973	Prof O Penrose (Open University)
25 Oct 1575	Phase transitions and correlation functions
5 Nov 1973	Prof J R Taylor (Imperial & Colorado)
J 140V 1373	A new look at Coulomb scattering
12 Nov 1973	Dr J A Evans (Sussex)
12 1100 1373	Quasi-particles and quasi-spin in nuclear structure
10 Nov 1073	Prof PW Anderson (Cambridge)
131107 1373	Anisotropic superfluidity in He ³
26 Nov 1973	Dr R Delbourgo (Imperial)
201101 1373	Field theory in arbitrary dimension
3 Dec 1973	Prof S F Edwards (SRC)
5 Dec 1575	Two-dimensional plasmas
10 Dec 1973	Dr G G Ross (Rutherford)
10 Dec 1575	Ultraviolet behaviour of gauge theories
14 Jan 1974	Dr R B Jones (QMC)
1100111571	New aspects of the Heisenberg chain
21 Jan 1974	Dr D Sherrington (Imperial)
- 1 5011 157 1	Magnetism in alloys of transsition metals
28 Jan 1974	Dr Chan Hong-Mo (Rutherford)
20 5 cm 25 7 .	Inclusive reactions
4 Feb 1974	Dr I J R Aitchison (Oxford)
	Scale invariance in quantum field theory
11 Feb 1974	Prof J C Ward (Macquarie & London)
	Leptonic currents and the Dirac equation
18 Feb 1974	Dr D B Abrams (Oxford)
	Some results on the XY model
4 Mar 1974	Dr B L Györffy (Bristol)
	Band theory for random metallic alloys
11 Mar 1974	Prof G S Guralnik (Brown & Imperial)
	Permanently bound quarks: new solutions to all field equations
18 Mar 1974	Dr D M Capper (Imperial)
	Quantum gravity
29 Apr 1974	Dr H Danskin (Imperial)
-	Accidental symmetry and pseudo-Goldstone bosons
6 May 1974	Dr C J Isham (King's)
-	Two-tensor theories of gravity with internal symmetry numbers
13 May 1974	Dr M F Sykes (King's)
-	An elementary approach to random mixtures and percolation processes
20 May 1974	Prof D J Thouless (Birmingham)
	Two-dimensional solids and superfluids

14 Oct 1974	Prof G Feldman (Johns Hopkins and Imperial)
21 Oct 1074	Massive and massless spin-two mesons
21 Oct 1974	Prof F A E Pirani (King's) The new style in analytical dynamics
28 Oct 1974	Dr C H Llewellyn Smith (Oxford)
20 Oct 1574	A unified model for weak and electromagnetic interactions
4 Nov 1974	Prof D J Bohm (Birkbeck)
. 1 (0 (15 / 1	A new notion of order in physics
11 Nov 1974	Dr Chan Hong-Mo (Rutherford)
	A unitary model for hadron collisions
18 Nov 1974	Dr A J Leggett (Sussex)
	The new phases of liquid He ³
25 Nov 1974	Dr P V Landshoff (Cambridge)
	Scattering with large momentum transfer
2 Dec 1974	Dr J M Kosteerlitz (Birmingham)
	Renormalisation group and critical phenomena
9 Dec 1974	Dr E R Pike (Malvern)
	Photon statistics and correlations
13 Jan 1975	Dr R Delbourgo (Imperial)
20.7 40.55	Super-symmetries
20 Jan 1975	Prof R F Streater (Bedford)
25 1 1055	Markov fields and Feynman integrals in Euclidean space
27 Jan 1975	Prof R McWeeny (Sheffield)
2 E-L 1075	The pseudo-potential concept, origin and applications
3 Feb 1975	Prof R Loudon (Essex)
10 Feb 1975	Coherence and non-linear optics Dr C J Isham (King's)
10 Feb 1973	Quantum gravity models with quantised matter
17 Feb 1975	Prof H E Hall (Manchester)
17 1 (0 1575	Is there a superfluid velocity in He ³ ?
24 Feb 1975	Prof J Callaway (LSU and Imperial)
211001070	Theory of ferromagnetism in transition metals
3 Mar 1975	Prof E Leader (Westfield)
	Theories of proton-proton scattering at very high energies
10 Mar 1975	Dr R B Stinchcombe (Oxford)
	Disordered spin systems
17 Mar 1975	Prof R J Baxter (Canberra & Edinburgh)
	Exactly soluble models in statistical mechanics
28 Apr 1975	Dr H Osborn (Cambridge)
	Dynamical symmetries for particles
5 May 1975	Prof J P Elliott (Sussex)
	A perturbation approach to nuclear structure
12 May 1975	Dr A M Lane (Harwell)
	Some interesting problems in present day nuclear physics
19 May 1975	Prof S F Edwards (SRC)
D.I. 4055	The theory of spin glasses
2 Jun 1975	Prof J M Blatt (New South Wales)
	A new transport phenomenon

13 Oct 1975	Dr D J Wallace (Southampton)
20 Oct 1075	Renormalisation group methods on a lattice
20 Oct 1975	Prof M J Moravcsik (Oregon & Sussex)
27 Oct 1975	What can we learn from polarisation experiments? Prof C J Thompson (Melbourne & Open University)
27 OCt 1975	A classical theory of amorphous ferromagnets
3 Nov 1975	Dr D Bailin (Sussex)
3 NOV 13/3	Gauge theories of strong interactions
10 Nov 1075	Prof O Penrose (Open University)
10 NOV 1973	Statistical mechanics of metastable states
17 Nov 1075	Dr M V Berry (Bristol)
1/ NOV 19/3	Topologies of waves
24 Nov 1975	Dr I G Halliday (Imperial)
24 NOV 13/3	Solitons and the ergodic hypothesis
1 Dec 1975	Dr M A Moore (Sussex)
1 Dec 13/3	The possible phases of superfluid He ³
8 Dec 1975	Prof L Castillejo (UCL)
0 Dec 13/3	A field theoretical view of dense nuclear matter
19 Jan 1976	Dr P Candelas (Oxford)
13 Jan 13/0	Particle production at black holes
26 Jan 1976	Prof I C Percival (QMC)
20 Jan 1570	Semi-classical quantisation of bound states
2 Feb 1976	Dr C J Isham (King's)
21001370	Canonical quantum gravity
9 Feb 1976	Prof R F Streater (Bedford)
31001370	Linear and some non-linear solitons
23 Feb 1976	Dr A J Leggett (Sussex)
251001570	Recent developments in superfluid He ³
1 Mar 1976	Prof S Deser (Brandeis & King's)
1 14101 1570	Duality properties of gauge fields
8 Mar 1976	Dr D D Burgess (Imperial)
0 Wai 1570	Atoms in plasmas and potential applications of lasers
15 Mar 1976	Prof B S DeWitt (Austin & Oxford)
15 Wai 1570	Quantum problems in curved space
3 May 1976	Dr N Rivier (Imperial)
5 141dy 1570	Dynamics of the spin-boson model in solids
10 May 1976	Dr J Gunson (Birmingham)
10 Way 157 0	Statistical mechanics of the two-dimensional Coulomb gas and the quantised
sine G	ordon equation
	Dr P Goddard (Cambridge)
_, 1.2u _y 10,0	Solitons and strings
24 May 1976	Prof R J Elliott (Oxford)
= : 1:1ay 15 / 0	Theory of excitations in disordered crystals
	Theory of dictitations in abordered crystals

18 Oct 1976	Dr C J Isham (Imperial)
	Solitons and pions
25 Oct 1976	Prof L M Falicov (Berkeley & Cambridge)
	Transfer matrix techniques for studying binary alloys
1 Nov 1976	Prof Sir Rudolf Peierls (Oxford)
	Momentum of light in a refractive medium (Why Minkowski and Abraham
	were wrong)
8 Nov 1976	Prof D J Thouless (Birmingham)
	Critical behaviour of a type II superconductor in a magnetic field
15 Nov 1976	Dr R J N Phillips (Rutherford)
	The production of charmed particles
17 Jan 1977	Dr J M Kosterlitz (Birmingham)
	Phase transitions in two dimensions
24 Jan 1977	Prof M F Atiyah (Oxford)
	Solitons
31 Jan 1977	Dr P Goddard (Cambridge)
	Extended objects in field theory
14 Feb 1977	Prof A Houghton (Brown & Sussex)
	Critical phenomena and approximate renormalisation group calculations
21 Feb 1977	Dr P C W Davies (King's)
	Quantum stress tensors in curved space
28 Feb 1977	Prof R C Arnold (Argonne & Rutherford)
	Weak and electromagnetic interactions generated by a spontaneous breakdown
	of strong interaction symmetries
7 Mar 1977	Prof P Szekeres (Adelaide & Oxford)
	Fibre bundles and gauge theories
14 Mar 1977	Prof M H L Pryce (Vancouver & Sussex)
	The universe as seen from beyond the event horizon of a black hole
2 May 1977	Prof J Pati (Maryland & Imperial)
	Quarks and leptons
9 May 1977	Dr D Sherrington (Imperial)
	Effects of strong spatial disorder in magnetism

17 Oct 1977	Prof K J Barnes (Southampton)
24 0 -+ 1077	New elementary particle symmetries?
24 Oct 1977	Pro Sir Brian Pippard 9Cambridge) The superconductor permal interface
31 Oct 1977	The superconductor-normal interface
31 Oct 1977	Prof R H Dicke 9Princeton & Cambridge) The enigms of select obligations
7 Nov 1977	The enigma of solar oblateness
/ INOV 19//	Prof M Azbel (Tel Aviv)
14 Nov 1977	A physical approach to the investigation of DNA and RNA sequences
14 INOV 1977	V \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
21 Nov 1977	Quantising gravity Prof J E Enderby (Bristol)
21 INOV 1977	
28 Nov 1977	Recent progress in the structure of liquids Dr C J Isham (Imperial)
20 INOV 1977	Quantum field theory in a curved space-time
5 Dec 1977	Dr N Rivier (Imperial)
3 Dec 13//	Possibility of type I and type II ferromagnetism and antiferromagnetism
12 Dec 1977	Prof I C Percival (QMC)
12 Dec 13//	Recent developments in classical dynamics
16 Jan 1978	Prof A M Green (Helsinki & Sussex)
10 3411 1370	The N-N potential and isobars in nuclei
23 Jan 1978	Dr L J Landau (Bedford)
25 3411 1576	Phase transitions for classical lattice systems and quantum fields
30 Jan 1978	Prof Sir Sam Edwards (Cambridge)
50 Juli 1570	The role of functional integrals in physics
6 Feb 1978	Dr D Olive (Imperial)
01001070	Solitons and gauge groups
13 Feb 1978	Prof B Widom (Cornell & Oxford)
	???
27 Feb 1978	Dr A D Yoffe (Cambridge)
	Electrons in ne and two dimensional solids
6 Mar 1978	Dr A J Leggett (Sussex)
	Possible macroscopic effects of the weak interaction
13 Mar 1978	Dr G Gibbons (Cambridge)
	Gravitational instantons and the high temperature limit of general relativity
21 Apr 1978	Prof R A Brandt (NYU)
•	Monopoles
24 Apr 1978	Prof R F Streater (Bedford)
-	Bose-Fermi correspondence in two dimensions
25 Apr 1978	Prof P van Nieuwenhuizen (Stony Brook)
-	Supergravity: an introduction and some recent results
8 May 1978	Dr R S Ward (Oxford)
-	Self-dual solutions of the Einstein equations
22 May 1978	Dr R Haydock (Cambridge)
-	Electron localisation in weakly disordered systems

9 Oct 1978	Dr P I P Kalmus (QMC)
	The 19th internatioanl conference on high energy physics in Tokyo
16 Oct 1978	Prof C H Woo (Maryland & Sussex)
	Why quarks are confined
23 Oct 1978	Prof F Janouch (Stockholm)
	Alpha decay calculations in the frame of nuclear field theory
30 Oct 1978	Prof M Kléman (Paris-Sud)
	Principles of a classification of defects in physics of condensed matter
6 Nov 1978	Prof N D Mermin (Cornell & Sussex)
	Superflow in helium three
8 Jan 1979	Dr R W Tucker (Lancaster)
	An intrinsic approach to supergravity theories
15 Jan 1979	Prof P Winternitz (Montreal & Scalay)
	On the reconstruction of nucleon-nucleon scattering amplitudes from
experir	ments and possible violations of isospin invariance
22 Jan 19 7 9	Dr D S Gaunt (King's)
	Recent results for the Ising model
29 Jan 1979	Dr M V Berry (Bristol)
	Scaling laws associated with catastrophe and diffractioanl regimes in random
waves	
5 Feb 1979	Dr L Landau (Bedford)
	Critical geometries in classical statistical mechanics
12 Feb 1979	Dr E J Hinch (Cambridge)
	Mechanical models of dilute polymer solutions in strong flows
19 Feb 1979	Prof M A Moore (Manchester)
	Spin glasses
26 Feb 1979	Dr J Rae (Harwell)
	Numerical simulation of gas and oil reservoirs
5 Mar 1979	Dr D B Fairlie (Durham)
	Higgs' fields and the determination of the Weinberg angle
12 Mar 1979	Prof J S R Chisolm (Canterbury)
	A gauge theory of electrons and monopoles
23 Apr 1979	Dr M J Duff (Imperial)
-	Self-duality and super-gravity
30 Apr 1979	Dr B L Györffy (Bristol)
_	Tunneling states in metallic glasses
14 May 1979	Prof L O'Raifeartaigh (Dublin IAS)
-	Algebraic structure of spontaneous symmetry breakdown
21 May 1979	Dr J S Bell (CERN)
-	Q²-duality in e□ annihilation in a potential model
4 Jun 1979	Prof E Leader (Westfield)
	The remarkable discoveries at Argonne about nucleon-nucleon spin structure

15 Oct 1979	Prof D J Wallace (Edinbirgh)
22 Oct 1070	Field theories of surfgace fluctuations
22 Oct 1979	Prof M A Ruderman (Columbia)
20.0-4.1070	A theory of pulsars
29 Oct 1979	Prof F Calogero (Rome & QMC)
E NI 1050	Integrable many-body problems
5 Nov 1979	Dr M A H MacCallum (QMC)
40.NI 4050	What type of fire-work was the Big Bang?
12 Nov 1979	Dr F E Close (Rutherford)
2027 1050	QCD perturbation theory for confined quarks and gluons
26 Nov 1979	Dr R Marshall (Rutherford & DESY)
2.5. 4050	QCD jets from JADE
3 Dec 1979	Prof V Heine (Cambridge)
	New developments in the magnetism of iron
10 Dec 1979	Dr J S Dowker (Manchester)
	Quantum mechanics and topolgy
7 Jan 1980	Dr J C Taylor (Cambridge)
	A counter example to the non-Abelian Bloch-Nordsieck conjecture
14 Jan 1980	Dr P C W Davies (King's)
	Particle production in the Big Bang
21 Jan 1980	Dr J M Irvine (Manchester)
	Neutron stars
28 Jan 1980	Dr D Sherrington (Imperial)
	Magnons in the Heisenberg-Mattis random magnet
4 Feb 1980	Dr D M Brink (Oxford)
	Heavy ion scattering
11 Feb 1980	Prof Sir Brian Pippard (Cambridge)
	Electrons in orbit
25 Feb 1980	Prof D B Lichtenberg (Indiana & Oxford)
	The nature of the potential between quarks
3 Mar 1980	Dr P W Higgs (Edinburgh)
	Non-linear realisations of supersymmetry
21 Apr 1980	Dr E Corrigan (Durham)
	Instantons and functional determinants
28 Apr 1980	Dr R B Stinchcombe (Oxford)
	Scaling and cross-over in magnets
12 May 1980	Prof O Penrose (Open University)
	Entropy in non-equilibrium systems
19 May 1980	Prof T W B Kibble (Imperial)
	Geometrisation of quantum mechanics and non-linear generalisations

13 Oct 1980	Dr I T Drummond (Cambridge)
20.0 . 1000	Thermal Green's functions in an expanding universe
20 Oct 1980	Dr M R Hoare (Bedford)
27 Oct 1000	Boltzmann model, non-linear relaxations and collective gains Prof D B Cline (Madison)
27 Oct 1980	
2 Nov. 1000	Experiments to search for proton decay and a finite neutrino mass
3 Nov 1980	Prof C Michael (Liverpool)
10 Nov 1000	Do we understand heavy quark bound states?
10 Nov 1980	Dr D G Pettifor (Imperial)
17 Nov 1000	Heats of formation of transition metal alloys
1/ NOV 1960	Dr P G Williams (Westfield) Mesons glueballs anomalies and the LI(1) problem
24 Nov 1980	Mesons, glueballs, anomalies and the U(1) problem
24 NOV 1900	Prof PT Landsberg (Southampton) Some questions in relativistic thermodynamics
1 Dec 1980	Prof R Delbourgo (Hobart & Imperial)
1 Dec 1500	The gauge techniqye
8 Dec 1980	Dr J M Kosterlitz (Birmingham)
0 Dec 1300	Spin-glasses - a mean field theory
2 Feb 1981	Prof P Wohlfarth (Imperial)
21001301	High magnetic field effects in some metallic magnetic materials
9 Feb 1981	Prof R F Streater (Bedford)
51001501	Lorentz covariant states of the free massless field
16 Feb 1981	Dr G P McCauley (Birmingham)
101001501	Confinement by entanglement
23 Feb 1981	Dr S Lovesy (Rutherford)
251051501	Dynamic correlation in one-dimensional magnets: a review of the theory and
compii	iter simulation data
2 Mar 1981	Dr W Zakrezewski (Durham)
= 1/101	Supersymmetric generalisations of CPn models
9 Mar 1981	Dr M Rollek (Cambridge)
	Regge calculus: an introduction and some new results
16 Mar 1981	Prof S Fubini (CERN)
	Quantum gravity at small distances
27 Apr 1981	Dr A D Bruce (Edinburgh)
1	Universality at structural phase transitions
11 May 1981	Dr C Sachrajda (Southampton)
J	Some thoughts on the gauge hierarch problem
18 May 1981	Prof D W Robinson (New South Wales & Oxford)
-	The heat equation and semi-groups
1 Jun 1981	Dr A P Young (Imperial)
	Two-dimensional melting
8 Jun 1981	Prof Kazumi Maki (U of S Carolina)
	???

12 Oct 1981	Dr E F Corrigan (Durham) Monopoles
19 Oct 1981	Dr A J G Hey (Southampton)
19 OCt 1901	Monte Carlo studies of lattice gauge theories
26 Oct 1981	Prof N H March (Oxford)
20 001 1501	Electronics and ionic ordering in condensed matter plasmas
2 Nov 1981	Dr T D Clark (Sussex)
2 140V 1501	Macroscopic quantum mechanics in superconductivity
9 Nov 1981	Prof L Castillejo (UCL)
J 140V 1501	A large toroidal quark bag model to explain the Judek effect
16 Nov 1981	
101101 1001	The evolution of waves in disordered media
23 Nov 1981	
	Statistics of optical scintillation
30 Nov 1981	<u> •</u>
	Optical bistability and related devices
7 Dec 1981	Dr N Roley (Daresbury)
	High spin states in nuclei
14 Dec 1981	Prof I C Percival (QMC)
	The transition to chaos
18 Jan 1982	Dr N Dombey (Sussex)
	Are weak and electromagnetic interactions unified?
25 Jan 1982	Prof J G Powles (Kent)
	Computer simulations of liquids
1 Feb 1982	Dr J Yeomans (Southampton)
	Commensurate-incommensurate phase transitions and the Devil's staircase
8 Feb 1982	Prof M YaAzbel (Tel Aviv)
	Electrons, phonons, impurities and localisation
22 Feb 1982	Prof Sir Sam Edwards (Cambridge)
	Phase changes and diffusion in entangled molecules
1 Mar 1982	Dr R W Munn (UMIST)
	Electronic motion in organic crystals
8 Mar 1982	Prof J Essam (Westfield)
	Percolation in directed systems
15 Mar 1982	
1075 1000	A new approach to metastability
10 May 1982	Prof G Saunders (Bath)
4535 4000	Landau theory applied to elastic phase transitions
17 May 1982	Prof M V Berry (Bristol)
0.43.6 4000	Structure in semiclassical spectra; a question of scale
24 May 1982	Dr G G Ross (RAL)
141 4000	Supersymmetric grand unification
14 Jun 1982	Dr B Hiley (Birkbeck)
	A quantum algebraic approach to generalised phase space

11 Oct 1982	\ 1 /
40.0 . 4000	Dynamical group approach to coexistence phenomena
18 Oct 1982	Prof D J Newman (Hong Kong)
DE 0 : 4000	Spin polarized crystal fields
25 Oct 1982	Dr J H Davies (Cambridge)
1 NI 1000	Electron glass
1 Nov 1982	Dr D Broadhurst (Open U)
45 NT 4000	Can QCD sum rules fix properties of a single resonance?
15 Nov 1982	Dr R Horgan (Cambridge)
00 NI 4000	Stochastic evolution, turbulence and lattice gauge theories
22 Nov 1982	
00 NI 1000	Problems and development in supersymmetry and supergravity
29 Nov 1982	Dr M Pennington (Durham)
C D 1002	What only LEAR can teach us about the hadron spectrum
6 Dec 1982	Dr D M Brink (Oxford)
12 Daa1002	Barrier penetration
13 Dec1982	Prof A Houghton (Brown)
77 Ion 1002	Towards a theory of disordered 2-dimensional electronic systems
27 Jan 1983	Dr R B Jones (QMC)
3 Feb 1983	Linear response theory for colloid suspensions
3 LED 1303	Dr I Halliday (Imperial) Polymers and ϕ^4 is free
10 Eab 1002	
10 Feb 1983	Prof R F Streater (Bedford)
17 Feb 1983	Quantum noise Dr D Abraham (Oxford)
17 Feb 1303	The statistical mechanics of bubbles
24 Feb 1983	Prof C J Isham (Imperial)
24 Feb 1303	Quantum geometry
3 Mar 1983	Dr D A Ross (Southampton)
5 War 1505	Does the Drell-Yan cross-section in QCD factorize?
10 Mar 1983	Dr M Pepper (GEC)
10 14101 1505	Localization and interaction effects in the 2-D electron gas
17 Mar 1983	Prof J C Taylor (Cambridge)
17 17101 1505	Soft gluons and fast quarks
5 May 1983	Dr G Sewell (QMC)
5 1.1aj 15 65	Derivation of phenomenological continum mechanics laws from the
	Schrödinger equation
12 May 1983	- -
<i>J</i> = - -	Intense light ion beams for inertial cofinement fusion
19 May 1983	•
<i>J</i>	Finiteness and supersymmetry

6 Oct 1983	Dr M J Duff (Imperial)
	Kaluza-Klein approach to supergravity
13 Oct 1983	Prof M Moore (Manchester)
	Schrödinger's cat - its last meow
20 Oct 1983	Prof O Penrose (Open U)
	Kinetics of phase transitions
27 Oct 1983	Prof D J Wallace (Edinburgh)
	Prospects for lattice gauge theories
3 Nov 1983	Prof P I P Kalmus (QMC)
	Discovery of the W and Z particles
10 Nov 1983	Dr C H Llewellyn-Smith (Oxford)
	The status of electro-weak theory
24 Nov 1983	Prof I C Percival (QMC)
	Ordere behind chaos in Hamiltonian systems
1 Dec 1983	Prof T W B Kibble (Imperial)
	Phase transitions in the early universe
8 Dec 1983	Dr J H Schwarz (Caltech and QMC)
	Superstrings
19 Jan 1984	Prof D J Thouless (Cambridge)
	Electron localization
26 Jan 1984	Dr L Dolan (Rockefeller)
	Bound states in Yang-Mills theories and Kac-Moody symmetry
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	Mean field theory of spin glasses
9 Feb 1984	Dr R J N Phillips (RAL)
	Looking for top quarks
16 Feb 1984	Prof M V Berry (Bristol)
	Phase factors accompanying adiabatic changes
23 Feb 1984	Dr G Karl (Guelph & Oxford)
	Proton decays and all that
1 Mar 1984	Dr D Olive (Imperial)
	Algebras, strings and lattices
19 Mar 1984	Prof M A B Beg (Rockefeller)
	The Higgs mass
7 Jun 1984	Prof M Irvine (Manchester)
10 - 100 1	The constancy of physics from the Big Bang to prehistoric nuclear reactors
13 Jun 1984	Dr A Davis (Cambridge)
0= 1 100:	Supersymmetric sigma models and central charges
27 Jun 1984	Prof S Fubini (CERN)
	Elementary supersymmetry

11 Oct 1984	Dr G E Stedman (Canterbury & Oxford)
18 Oct 1984	Bell's inequality: a lecture demonstration Prof M Moshinsky (Mexico)
	Atoms and pseudo-atoms in superstrong magnetic fields
25 Oct 1984	Prof V Heine (Cambridge)
	Incommensurate structures of insulators
1 Nov 1984	Dr I Moss (Newcastle)
	The origin of the universe
8 Nov 1984	Dr D Bailin (Sussex)
	Eine kleine Kaluza-Klein
15 Nov 1984	Prof U Smilansky (Weizmann & Oxford)
1511011501	Quantum mechanics of classical ergodic systems
22 Nov 1984	Prof R G Moorehouse (Glasgow)
	Cosmological equations in Kaluza Klein supergravity
29 Nov 1984	Dr E G Wilson (QMC)
25 1101 1504	Polarons in polymers
6 Dec 1984	Dr Chan Hong-Mo (RAL)
0 DCC 1504	On loop space formulation of gauge theories
13 Dec 1984	Dr G Gibbons (Cambridge)
13 Dec 1304	Black holes in quantum mechanics
17 Jan 1985	Dr N Cottingham (Bristol)
1/ Jall 1985	Soliton model of the nucleon
24 Jan 1985	
24 Jan 1905	Dr M B Green (QMC) ??? (SEE 7 OCT 1985 BELOW)
21 Inn 1005	Developments in superstrings
31 Jan 1985	Dr F Vivaldi (QMC)
7 Esh 1005	Renormalisation in dynamics systems
7 Feb 1985	Prof L O'Raifeartaigh (Dublin)
14 Esh 1005	Effective potentials for non-convex potentials
14 Feb 1985	Prof R A Stradling (Imperial)
21 Esk 1005	Far infrared spectroscopy of semiconductors
21 Feb 1985	Dr R Ball (Cambridge)
0.141005	Kinetics of aggregation
9 Mar 1985	Dr G Gehring (Oxford)
1434 1005	Molecular quantum tunneling
14 Mar 1985	Prof N W Ashcroft (Cornell & Oxford)
DE A 100E	Very dense phases of H and He: possible new states of matter
25 Apr 1985	Dr D R T Jones (Liverpool)
0.3.6 4005	Finite(?) realistic(?) supersymmetric SU(5): low energy predictions
2 May 1985	Prof O Penrose (Open U)
	Phase transitions on fractal lattices
9 May 1985	Dr D M Capper (QMC)
	The light-cone gauge in quantum field theory
16 May 1985	Prof K J Barnes (Southampton)
	Unification from compactification
23 May 1985	Prof C Michael (Liverpool)
	Potentials from lattice QCD

7 Oct 1985	Prof M B Green (QMC)
4.4.0 . 4005	Developments in superstrings
14 Oct 1985	Dr J C Maxwell (Durham)
D4 O 400=	Jet fragmentation variables
21 Oct 1985	Dr D Newns (Imperial)
	Mean field theory of intermediate valence and heavy fermion systems
28 Oct 1985	Dr D Ross (Southampton)
	Instantons in N=1 supersymmetric Yang-Mills theory
4 Nov 1985	Dr P McCarthy (QMC)
	Renormalisation and the 20th century "exponential" function
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	Critical exponents and infinite dimensional algebras
18 Nov 1985	Dr T C Choy (Imperial)
	Structural and electronic properties of quasicrystals (Penrose tiles)
25 Nov 1985	Dr A MacKinnon (Imperial)
	Quantum Hall effect
2 Dec 1985	Prof G G Emch (Rochester & Göttingen)
	New classical properties of coherent states
9 Dec 1985	Dr P Goddard (Cambridge)
	Infinite dimensional algebras and their physical properties
13 Jan 1986	Prof D J Kim (Aoyama & QMC)
	Electron-phonon effects in magnetism
20 Jan 1986	Dr B J Carr (QMC)
	Dark matter physics
27 Jan 1986	Dr G G Ross (Oxford)
0 = 1 .000	Superstring inspired models
3 Feb 1986	Dr B L Györffy (Bristol)
40 E 1 4000	First-principles theory of ferromagnetic phase transitions
10 Feb 1986	Dr A Bray (Manchester)
45 D 1 400C	Scaling in spin glasses
17 Feb 1986	Dr PV Landshoff (Cambridge)
D.4. T. 1. 4000	Stochastic quantisation and the axial gauge
24 Feb 1986	Dr F E Close (RAL)
0.3.5 4006	Quarks in nuclei
3 Mar 1986	Dr G L Sewell (QMC)
10 3 4 1000	PCT, gravitation, thermodynamics and all that
10 Mar 1986	Dr D Broadhurst (Open U)
D4 A 4000 D	Massless Feynman diagrams: 5 loops and beyond
21 Apr 1986 D	or R B Jones (QMC)
20.4 4000	Dielectric properties of random two phase materials
28 Apr 1986	Pro E H Lieb (Princeton)
10.35 1006	Model of crystallisation: a variant of the Hubbard model
12 May 1986	Dr A J G Hey (Southampton)
22.6 4006	Transputers, occam and computational physics
22 Sep 1986	Dr J E Nelson (Turin)
	Covariant canonical formalism for polynomial supergravity in any dimensions

13 Oct 1986	Prof C M Bender (Washington & Imperial)
20 Oct 1986	Finite element approximation in quantum field theory Dr N Woodhouse (Oxford)
20 000 1500	Geometric quantisation
27 Oct 1986	Dr J Yeomans (Oxford)
	Competition in magnets, minerals and metals
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	Cosmic strings
10 Oct 1986	Prof R Pike (KCL)
	Generalised information theory
17 Oct 1986	Dr C Manogue (Durham)
	Lorentz invariance and the composite string
24 Oct 1986	Prof G Ellis (Cape Town & QMC)
1 D 1000	The problem of smoothness in cosmology
1 Dec 1986	Dr N Cade (GEC)
0 Dec 1006	Towards quantum electronics
8 Dec 1986	Prof D J Wallace (Edinburgh) Neural network models
12 Jan 1987	Dr P P Martin (Manchester)
12 Jan 1507	Phase transitions and statistical mechanics
19 Jan 1987	Prof E J Squires (Durham)
15 5411 1507	Some comments on the interpretation of quantum theory
26 Jan 1987	Dr J Chalker (Southampton)
	The quantum Hall effect
2 Feb 1987	Dr B Webber (Cambridge)
	QCD jets
9 Feb 1987	Dr M Teper (Oxford)
	Topology on the lattice
16 Feb 1987	Dr Chan Hong-Mo (RAL)
DD E 1 400E	Particle-field interactions as a consequence of topology
23 Feb 1987	Dr J S Bell (CERN)
	Fulling, Hawking and Unruh effects in quantum field theory and electron
2 Mar 1987	fluctuations in storage rings
2 Mdl 190/	Dr K Bowler (Edinburgh) Lattice QCD
9 Mar 1987	Prof A S Goldhaber (SUNY & Cambridge)
5 Will 1507	Nuclear stopping power
11 May 1987	Dr I J Aitchison (Oxford)
- 5	Skyrmions
18 May 1987	Dr G A Gehring (Oxford)
, and the second	Domain formation near Ising critical points
1 Jun 1987	Dr L J Landau (KCL)
	Non-classical structure of quantum states
8 Jun 1987	Prof R J Loudon (Essex)
	Non-classical properties of light
15 Jun 1987	Dr K S Narian (RAL)
22 Jun 1007	Prof T.M. Disc (ETIL Zuwich)
22 Jun 1987	Prof T M Rice (ETH, Zurich) High-T _c superconductors
	Tilgii-1 c superconductors

12 Oct 1987	Dr P G Williams (QMC)
10.0-+ 1007	Supernova 1987a
19 Oct 1987	Dr R J N Phillips (RAL)
2C O+ 1007	BB mixing and all that Dr. D. Coddord (Cambridge)
26 Oct 1987	Dr P Goddard (Cambridge) Conformal invarianve in two-dimensional systems
2 Nov 1987	Prof C J Isham (Imperial)
	Quanum gravity without strings
9 Nov 1987	Dr M Gower (RAL)
5 1404 1507	Phase conjugate mirrors
16 Nov 1987	Dr B J Hiley (Birkbeck)
101107 130/	Foundations of quantum field theory: the quantum potential approach
23 Nov 1987	Dr M Long (RAL)
	The Hubbard model, heavy fermions and high T _c superconductors
23 Nov 1987	Prof E Leader (Birkbeck)
	First failure of the quark-parton model?
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29 Feb 1988	Dr G L Sewell (QMC)
7 M 1000	Macrostatistics and irreversible thermodynamics
7 Mar 1988	Dr G Launer (QMC)
1 / May 1000	The QCD vacuum
14 Mar 1988	Dr A I Solomon (Open U) Supersymmetry in superconductivity
21 Mar 1988	Prof B U Felderhof (Aachen)
21 Wiai 1500	Electrodynamic effects in polar fluids
25 Apr 1988	Dr I Drummond (Cambridge)
2571pi 1500	Diffusion in random media
9 May 1988	Dr R B Jones (QMC)
:y	Rotational diffusion
16 May 1988	
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23 May 1988	Prof D Lichtenberg (Indiana)
J	QCD and the potential approach to quarkonium
6 Jun 1988	Dr G Joyce (KCL)
	Hard hexagon model and modular functions

13 Jun 1988 Prof **Sir Sam Edwards** (Cambridge)
The theory of powders
20 Jun 1988 Dr **M J Duff** (Imperial)
Supermembranes
27 Jun 1988 Prof **R Penrose** (Oxford)
Quasi-crystals

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	Lattice field theory and the fate of the standard model
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	From a "pointless" generalization of gauge theory to the theory of strings
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	Properties of surfaces with extrinsic curvature
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28 Nov 1988	Prof L Castillejo (UCL)
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	Edinburgh concurrent supercomputer: project and applications
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	Energy of the Weyl soliton
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16 Oct 1989	Prof M A B Bég (Rockefeller)
22.0 / 1000	Triviality and Higgs mass bounds - a status report
23 Oct 1989	Prof G L Sewell (QMW)
20.0-4.1000	OLDRO and superconductive electrodynamics
30 Oct 1989	Dr C T C Sachjrada (Southampton)
C NI 1000	Hadronic structure for lattice gauge theories
6 Nov 1989	Dr I J R Aitchison (Oxford)
10 NI 1000	Effective gauge theory of high-T _c superconductivity
13 Nov 1989	
27 N 1000	Neural networks
2/ NOV 1989	Prof R Penrose (Oxford)
4 D 1000	Computability in the laws of physics and mental phenomena
4 Dec 1989	Dr W Yeung (QMW)
11 D 1000	Variational wave functions for Hubbard and t-J models
11 Dec 1989	Dr J E Nelson (Turin)
1F I 1000	2+1 dimensional quantum gravity
15 Jan 1990	Dr B Movaghar (QMW)
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29 Jan 1990	Dr A J Kent (Cambridge)
E E 1 1000	Testing quantum mechanics
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	Approximate density functionals and their consequences for atoms and
10 E I 1000	condensed matter
12 Feb 1990	Dr N H d'Ambrmenil (Warwick)
10 E I 1000	Anyons and superconductivity
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20 E-L 1000	Large order behaviour in supersymmetric theories
26 Feb 1990	Prof D Evans (Swansea)
□ M 1000	C*-algebraic methods in statistical mechanics and conformal field theory
5 Mar 1990	Dr T D Clark (Sussex)
12 May 1000	Exprns of macroscopic quantum behaviour thru' a coupled classical envirnmnt
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22 Apr 1000	
23 Apr 1990	Dr W von der Linden (IBM Zurich & Imperial)
20 Apr 1000	Quantum simulations of strongly correlated electron systems
30 Apr 1990	Dr J M F Gunn (RAL)
14 Mars 1000	Spinless polarons Dr. D. Tay, many d. (Combridge)
14 May 1990	`
4 Jun 1990	Topological defects in supersymmetric field theories
4 Juli 1990	Dr A Kent (Cambridge)
11 1000	Psychophysical parallelism and its implications
11 Jun 1990	Prof M B Green (QMW)
18 Jun 1990	String curiosities Dr. P. Tavakol (OMW)
10 1011 1330	Dr R Tavakol (QMW) Fragility in physics?
25 Jun 1990	Dr S Catterall (Cambridge)
29 Juli 1990	· · · · · · · · · · · · · · · · · · ·
	Crumpling transitions in random surfaces

8 Oct 1990	Dr N Linden (Cambridge)
15 0-+ 1000	Topology change in quamtum gravity
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22 Oct 1990	Can one hear the chaology of a drum? Dr R Kenway (Edinburgh)
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25 000 1550	Squeezed light
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10 D 1000	Quantum mechanics in the macroscopic domain
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14 Inn 1001	Advances in electron dosimetry
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21 Jan 1991	Prof G Rickayzen (Kent)
21 Jan 1551	Inhomogeneous fluids - what van der Waals didn't do
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20 Juli 1551	Statistical mechanics of the brain
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	STM and AFM - the new microscopies
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	Dark matter
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	Universality in 2-dimensional cellular structures (soap froth)
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22 Apr 1991	Prof M Fleischmann (Southampton) The stronge behaviour of douterium dissolved in metal host lettiges
20 Apr 1001	The strange behaviour of deuterium dissolved in metal host lattices
29 Apr 1991	Dr N Rivier (Imperial) Crystallography of composite flowers, universality, mode-locking and
dynam	ical maps
	Dr K Green (RAL)
15 Way 1551	Ultracold neutrons and the electric dipole moment of the neutron
20 May 1991	Prof A Lyne (Jodrell Bank)
2 0 1114y 1331	Millisecond pulsars
3 Jun 1991	Prof P Twin (Liverpool)
-	Superdeformed nuclei
10 Jun 1991	Dr R Marshall (RAL)
	e⁺e¹lhadrons: a fundamental process
17 Jun 1991	Dr G G Ross (Oxford)
	On the implications of a 17 keV neutrino

7 Oct 1991	Dr A C Davis (Cambridge)
	Baryon asymmetry from cosmic string loops
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21 0 + 1001	Superfluid speed limits
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28 Oct 1991	Molecular electronics - prospects for green memories Prof P G Drazin (Bristol)
20 OCI 1991	Transition to turbulence
4 Nov 1991	Dr H F Jones (Imperial)
41107 1331	The delta-expansion: a new non-perturbative approach to field theory
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9 Dec 1991	Dr R Maschuw (Karlsruhe)
	KARMEN: neutrino physics at ISIS
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	Flexi-crystals
27 Jan 1992	Dr G Barton (Sussex)
D.E. I. 400D	Light faster than c between parallel mirrors?
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10 E 1 1000	The search for the origin of very high energy cosmic rays
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17 Feb 1992	The quantum well solar cell
17 Feb 1992	Prof S Fubini (CERN & Turin) Simplicity in the large and in the small
24 Feb 1992	Prof R Fleck (Embry-Riddle & QMW)
241001332	The Kelvin-Helmholtz instability in the interstellar medium
2 Mar 1992	Dr T Monteiro (RHBNC)
- 1/101 155 -	Quantum manifestations of classical chaos in atoms and molecules
9 Mar 1992	Dr F Vivaldi (QMW)
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11 May 1992	Dr F E Close (RAL)
-	Cold fusion: too hot to handle?
18 May 1992	Prof C J Isham (ICSTM)
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DD I 4000	Can chaos survive quantum mechanics?
22 Jun 1992	Dr J Hassard (ICSTM)
	The technologies of nuclear proliferation

24 Jun 1992 Dr **J Ellis** (CERN)
The theoretical interpretation of LEP physics

12 Oct 1992	Dr M Charlton (UCL)
10.0-+ 1000	Antihydrogen
19 Oct 1992	Dr D Wark (Oxford)
2C O-+ 1002	Solar neutrinos: what's SNU?
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22 NI 1002	FLAP - the flexible approach to physics
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20 NI 1002	Spin-charge separation in the Hubbard model: fact or fiction?
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F.D. 1000	The coming of age of wind energy
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1.4.D. 100D	Physics and photosynthesis
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115 1000	The Iraqi nuclear weapons programme: a technical overview
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40 T 400D	New perspectives for neural networks
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25 1 4002	Random surfaces
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4 = 1 4000	Epidemics, equations and human behaviour
1 Feb 1993	Dr Artur Ekert (Oxford)
0 = 1 .000	Quantum cryptograhy
8 Feb 1993	Dr Helmut Telle (Swansea)
.==1 .000	Resonance ionisation spectroscopy: promises and reality
15 Feb 1993	Prof Ian Percival (QMW)
1	Quantum state diffusion
22 Feb 1993	Prof Ed Randall (QMW)
. = 1	NMR: a physics tool for chemistry, biology and medicine
1 Feb 1993	Prof Blas Cabrera (Stanford and Oxford)
	Phonon mediated detectors for dark matter searches and reactor neutrino
0.7.5 4.000	searches
8 Mar 1993	Dr Alex Martin (QMW)
4=36 4000	Silicon microstrips add flavour to physics at LEP
15 Mar 1993	
20.4	Radiolysis of water
26 Apr 1993	Prof R E Peierls (Oxford)
	Broken symmetries
10 May 1993	5 \
	Toda field theory
17 May 1993	99 (- /
	Glueballs at the Crystal Barrel?
24 May 1993	
-	The Hubble space telescope: what it can do and what it might do
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	Quantization of the 1-dimensional ballistic resistance in semiconductor
	microstructures
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	The quark lepton mass problem
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	Advances towards pocket-size lasers producing rainbow colours
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	Beyond general relativity
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	Terahertz physics and technology of low dimensioanl semiconductor structures
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1	Testing quantum mechanics by (thought?) experiments
9 May 1994	Prof J Barber (Imperial)
J	The physics of energy conversion in photosynthesis
16 May 1994	Prof G E Stedman (Canterbury, NZ)
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	Following a "collapsing" wavefunction
13 Jun 1994	Dr M J Griffin (QMW)
	The future of far infrared and submillimetre astronomy
20 Jun 1994	Prof J B Hartle (Santa Barbara)
	Quantum mechanics in the light of quantum cosmology
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10 Oct 1994	,
450 . 4004	Quantum transport in mesoscopic superconductors
17 Oct 1994	Dr J L Cardy (Oxford)
240 + 1004	Reaction-diffusion processes: simple examples of renormalisation in physics
24 Oct 1994	Prof M J Duff (Texas A&M and INI Cambridge)
21.0 + 100.4	Black holes as elementary particles
31 Oct 1994	Dr M N Zervas (Southampton)
7 Ni 100 4	Erbium-doped fibre amplifiers for optical communication
7 Nov 1994	Dr M Monastyrsky (ITEP, Moscow and INI, Cambridge)
14 Nov 1004	Topology in physics Prof F E Close (DRAL and QMW)
14 NOV 1334	Hadrons beyond the quark model
15 Nov 1004	Professor PM Pearle (Hamilton College, NY)
13 NOV 1334	Wavefunction collapse as a physical process: description and consequences
21 Nov 1004	Dr S Rose (DRAL)
21 NOV 1994	High power lasers and astrophysics
28 Nov 1994	
20 NOV 1334	Does superconductivity exist without dirt?
5 Dec 1994	Prof J D Barrow (Sussex)
J Dec 1334	Cosmology: the beginning, the middle and the end
12 Dec 1994	Dr J Rarity (DRA, Malvern)
12 Dec 1554	Interfering with photons
30 Jan 1995	Prof W Barford (Sheffield)
50 Juli 1555	Flux lines in high T _c superconductors
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13 Feb 1995	Dr R Schack (QMW)
10 1 00 1000	Chaos, quantum chaos and the second law
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	Quantum oscillations in the superconducting state
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	Lucidity, hypercredulity and civilised existence, or what has music got to do
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	Clues to the identity of the cosmic dark matter
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	Industrially funded research - the link with post-experience education
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	The search for gravitational waves

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 The special role of gravity in quantum state reduction - with application to neuronal microtubules

 12 Jun 1995 Prof A Watson (Leeds)
 The highest energy particles in nature: an enigma and the way forward

 19 Jun 1995 Prof E G Wilson (QMW)
 Prospects for molecular electronics

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9 Oct 1995	Professor Tullio Regge (Turin)
10.0 -+ 1005	A physicist in the European parliament
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20 Nov 1995	Dr Lucien Hardy (Durham)
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	First results from ISO

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20 May 1996 Professor **WJ Firth** (Strathclyde)
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0.7.1.400	prospects
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The Sanger Centre's role in the Human Genome Project
Dr **Lynton Appel** (Culham)

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17 May 2004	Dr Peter Vukusic (Exeter)
-	Light and colour on the wing: photonics in nature
24 May 2004	<u> </u>
<u>-</u> 1	BOOMERANG Returns and WMAP Maps interpreting the latest images of
	the cosmic microwave background radiation

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Dr Helen Margolis (NPL)
Optical frequency combs and optical clocks Dr Robert Crittenden (Portsmouth)
Dark energy
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Dr Ruth Gregory (Durham) Brane New World
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