Schedule of talks, First BritGrav meeting, Southampton, 27/28 March 2001

March 29, 2001

Session 1, 11.00-12.30, Tuesday
Cosmology
Chairman: Ray d'Inverno, U Southampton

1. Carlos Sopuerta, U Portsmouth
   Dynamics of irrotational dust matter in the long wavelength approximation
2. Spyros S Kouris, U York
   Large-distance behaviour of graviton two-point functions in de Sitter spacetime
3. Stanislav Babak, U Cardiff
   Finite-range gravity and its role in cosmology, black holes and gravitational waves
4. Cristiano Germani, U Portsmouth
   Gravitational collapse in the brane
5. Jorma Louko, U Nottingham
   Brane worlds with bolts
6. M.L. Fil'chenkov, Peoples' Friendship University, Moscow
   Tunnelling models of creation and collapse
7. Henk van Elst, Queen Mary and Westfield College, U London
   Scale-invariant dynamics for Abelian G2 perfect fluid cosmologies

Session 2, 2.30-4.00, Tuesday
Exact solutions
Chairman: Robin Tucker, U Lancaster

1. Sonny Khan, U Aberdeen
   Projective symmetries in space-times
2. Ghulam Shabbir, U Aberdeen
   Curvature collineations for certain space-time metrics
3. Graham Hall, U Aberdeen
   Orbits of symmetries in space-times
4. Raul Vera, Queen Mary and Westfield College, U London
   Matching preserving the symmetry
5. Bill Bonnor, Queen Mary and Westfield College, U London
   Equilibrium of classical spinning particles

6. Alan Barnes, U Aston
   On some perfect fluid solutions of Stephani

7. Brian Edgar, U Linkoping, Sweden
   Tetrads and symmetry

Session 3, 4.30-6.00, Tuesday
Alternative theories/approaches
Chairman: Jerry Griffiths, U Loughborough

1. Fredrik Andersson, U Linkoping, Sweden
   Potentials and superpotentials of symmetric spinor fields

2. Annelies Gerber, Imperial College, U London, and Patrick Dolan, Imperial College London, pdolan@inctech.com
   The Lanczos curvature potential problems with applications

3. Robin Tucker, U Lancaster
   On the detection of scalar field induced spacetime torsion

4. Julian Barbour, Oxford
   Relativity without relativity

5. Petros Florides, Trinity College Dublin, Ireland
   The Sagnac effect and the special theory of relativity

6. Christopher Steele, U Nottingham
   Asymptotics of relativistic spin networks

7. John Barrett, U Nottingham
   Quantum Gravity and the Lorentz group

Session 4, 9.00-10.30, Wednesday
Causality/Criticality
Chairman: Graham Hall, U Aberdeen

1. Robert Low, U Coventry
   Timelike foliations and the shape of space

2. Jonathan Wilson, U Southampton
   Generalised hyperbolicity in singular space-times

3. Rod Halburd, U Loughborough
   Painleve analysis in General Relativity

4. Magnus Herberthson, U Linkoping, Sweden
   A nice differentiable structure at spacelike infinity

5. Jonathan Thornburg, U Vienna
   Episodic self-similarity in critical gravitational collapse

6. Jose-Maria Martin-Garcia, U Southampton
   Stability of Choptuik spacetime in the presence of charge and angular momentum

Session 5, 11.00-12.30, Wednesday
Black Holes/Criticality/Causality
Chairman: John Miller, SISSA/U Oxford

1. Elizabeth Winstanley, U Sheffield
   Update on stable hairy black holes in anti-de Sitter space

2. VS Manko, CINVESTAV - IPN
   Equilibrium configurations of aligned black holes

3. Colin Pendred, U Nottingham
   Black hole formation in (2+1)-dimensional relativity

4. Atsushi Higuchi, U York
   Low-energy absorption cross sections of stationary black holes

5. Brien Nolan, City University Dublin, Ireland
   Stability of naked singularities in self-similar collapse

6. Richard I Harrison, U Oxford
   A numerical study of the Schrodinger-Newton equation

7. Paul Tod, U Oxford
   Causality and Legendrian-linking

Session 6, 2.30-4.00, Wednesday
Experimental Gravitation
Chairman: Paul Tod, U Oxford

1. Tim Sumner, Imperial College, U London
   Fundamental physics experiments in space

2. Mike Plissi, U Glasgow
   The GEO 600 gravitational wave detector

3. Oliver Jennrich, U Glasgow
   LISA: An ESA Cornerstone mission to detect low frequency gravitational waves

4. Mike Cruise, U Birmingham
   A detector for very high frequency gravitational waves

5. Edward Porter, U Cardiff
   An improved model of the gravitational wave flux for inspiralling black holes

6. Anna Watts, U Southampton
   Neutron stars as a source of gravitational wavesx

Session 7, 4.30-6.00, Wednesday
Perturbative studies and Stellar modelling
Chairman: Mike Cruise, U Birmingham

1. John Miller, SISSA/U Oxford
   Non-stationary accretion onto black holes

2. Uli Sperhake, U Southampton
   A new numerical approach to non-linear oscillations of neutron stars

3. Philippos Papadopoulos, U Portsmouth
   Non-linear black hole oscillations

4. Felipe Mena, Queen Mary and Westfield College, U London
   Cosmic no hair: second order perturbations of de Sitter universe

5. Kostas Glampedakis, U Cardiff
   Scattering of scalar waves by rotating black holes

6. Reinhard Prix, U Southampton
   Covariant multi-constituent hydrodynamics

7. Ian Jones, U Southampton
   Gravitational waves from freely precessing neutron stars