

Tuesday 5th April a.m.

09.00	G31 - Plenary: Extreme environments and the laws of physics				
	<p>Chris Done - Extreme environments and the laws of physics Peter Saulson - Gravitational wave observations as a probe for strong gravity</p>				
10.30	Refreshments				
	<p>G33 H. Jones 1. Planet formation: observations</p>	<p>G34 A. Lawrence 2. Grid applications & e-Science</p>	<p>G29 A. Vecchio 3. Gravitational waves</p>	<p>G31 J. Osborne 4. Gamma-ray bursts</p>	<p>G28 W. Chaplin & R. Erdelyi 5. The Solar Interior and the Dynamo (UKSP)</p>
11.00	<p>P. Lucas 1.1 The bottom of the IMF in Orion</p>	<p>N. Walton 2.1 The AstroGrid virtual observatory system</p>	<p>I. Siong Heng 3.1 Searching for gravitational waves with GEO 600</p>	<p>J. Osborne 4.1 First results from the Swift gamma-ray burst satellite</p>	<p>W. Chaplin & R. Erdelyi 5.1 Introduction: UKSP organisers M. Proctor (invited) 5.2 Magnetic fields: convection and small-scale dynamos</p>
11.15	<p>M. Burleigh 1.2 Searching for dying solar systems - planets around white dwarfs</p>	<p>C. Mottram 2.2 Robonet - a homogenous telescope network</p>	<p>S. Rowan 3.2 Future gravitational wave detectors - UK instrumental developments</p>	<p>A. Blustin 4.2 Searching for GRB afterglows with the Swift UVOT</p>	
11.30	<p>C. Reeves 1.3 Detection of gaps in proto-planetary discs</p>	<p>A. Allan 2.3 eSTAR - a heterogeneous telescope network</p>	<p>A. Mercer 3.3 Status of the search for a stochastic gravitational wave background within the LSC</p>	<p>M. De Pasquale 4.3 Swift investigation of dark Gamma-Ray Bursts</p>	<p>G. Botha 5.3 2D numerical simulations of sunspots</p>
11.45	<p>J. Greaves 1.4 Metallicity and the first planetary systems</p>	<p>A. Richards 2.4 Is it a starburst? Is it an AGN? No it's... find out more with VO tools!</p>	<p>3.4 1 minute poster presentations</p>	<p>A. Levan 4.4 The afterglows of X-ray flashes</p>	<p>E.J. Kim 5.4 A self-consistent theory of turbulent transport in the solar tachocline</p>
12.00	<p>B. Dent 1.5 Dissipation timescale for gas & dust discs</p>	<p>M. Cruise 3.5 The LISA observatory</p>	<p>K. Rhook 3.6 Realistic event rates for detection of supermassive black hole coalescence by LISA</p>	<p>S. Vaughan 4.5 The discovery of a dust scattered X-ray halo around GRB 031203</p>	<p>S. Fletcher 5.5 A novel technique for determining parameter estimates from very short p-mode time series</p>
12.15	<p>N. Thatte 1.6 The Gemini ExAOC instrument for exo-solar planet detection</p>	<p>D. Giaretta 2.5 Starlink and the virtual observatory</p>	<p>3.7 1 minute poster presentations</p>	<p>A. Monfardini 4.6 Rapid optical/IR followup of GRBs with large robotic telescopes</p>	<p>S. Zharkov 5.6 Statistical analysis of Solar Cycle 23 with Sunspot Solar Feature Catalogue</p>
12.30	G34 - Lunch meeting: Women in astronomy - Helen Walker & Yvonne Elsworth				
	<p>1.7 1 minute poster presentations</p>	<p>2.6 1 minute poster presentation</p>		<p>R. Priddey 4.7 GRB host galaxies and the history of dust-enshrouded star formation</p>	<p>R. Simoniello 5.7 Excitation mechanism of acoustic waves in the interior of the Sun</p>
12.30	G34 - Lunch meeting: Women in astronomy - Helen Walker & Yvonne Elsworth				

Tuesday 5th April p.m.

14.00	G31 - Plenary: New astronomy from novel analysis techniques				
	Alex Szalay - The potential of the virtual observatory Ofer Lahav - Data compression, classification and parameter estimation				
15.30	Refreshments				
	G34 S. Raychaudhury 6. Novel algorithms for astronomical analysis	G33 C. Clarke 7. Planet formation: theory	G31 A. Lyne 8. Pulsars and supernovae	G29 P. Hingley 9. Historical astronomy	G28 W. Chaplin & R. Erdelyi 10. Magnetohelioseismology (UKSP)
16.00	N. Walton 6.1 AstroGrid: open for science	G. Lodato 7.1 Planet formation in massive protostellar discs	M. Argo 8.1 MERLIN monitoring of recent core-collapse supernovae	R. Turkmani 9.1 Medieval Arabic/Islamic astronomy and its influence on the Renaissance	M. Thompson (invited) 10.1 Magnetohelioseismology
16.15	L. Nolan 6.2 Finding young stellar populations in early-type galaxies from independent components of their UV-optical spectra	A. Carballido 7.2 Diffusion of a passive contaminant and modeling of small particles in a local region of an accretion disc	R. Kotak 8.2 Discovery of a dusty circumstellar medium around the type Ia supernova, SN 2002ic		A. Kerekes 10.2 Influence of random photospheric effects on the solar f-mode
16.30	A. Collister 6.3 ANNz - photometric redshifts with artificial neural networks	R. Nelson 7.3 Planet formation in turbulent protostellar discs	T. Morris 8.3 Binary mergers and the formation of the Triple Ring Nebula around SN1987A	D. Le Conte 9.2 Warren De La Rue and the 1860 total eclipse of the Sun	D. Mackay 10.3 A dynamic MHD model for the mass motions in prominences
16.45	D. Chakrabarty 6.4 Deprojection of observed photometry using an inverse Gambit	G. D'Angelo 7.4 The dependence of protoplanet migration on coorbital torques	H. Dickinson 8.4 VHE gamma-ray emission from PSR B1259-63 at periastron		L. van Driel-Gesztelyi (invited) 10.4 Algorithm preparation and UK data availability for the solar Dynamics Observatory (SDO) investigations in the context of the UK virtual observatory
17.00	J.C. Cuevas-Tello 6.5 Time delay estimation in gravitational lensing: a new approach.	B.W. Jones 7.5 'Earths' in known exoplanetary systems	D. Green 8.5 1 minute poster presentation 8.6 Sub-mm and far-infra red observations of the Crab Nebula	D. M. Butterworth 9.3 Sir Robert Ball & popular astronomy in the late 19th Century	Dr. Robert Bentley 10.5 The European Grid of Solar Observations (EGSO)
17.15	6.6 General questions	7.6 Open discussion	M. MacLaughlin 8.7 Interactions in the double pulsar binary system		Y. Elsworth (chair) 10.6 Open discussion
17.30	6.7 1 minute poster presentations		M. Pitkin 8.8 Neutron stars as sources of gravitational waves	9.4 1 minute poster presentations	
19.00	Five-a-side Football Tournament - University Sports Pitches				
	Physics Poynting S02 - Allison-Levick Public Lecture				
	Fred Watson - When telescopes go bad				
20.00	UKSP Balti Night - commences 19.30				

Wednesday 6th April a.m.

G31 - Plenary: Planetary formation and prospects for life

Keith Horne - Exoplanetary systems
Simon Conway Morris - Life in the Universe

Refreshments

09.00	G31 - Plenary: Planetary formation and prospects for life					B5/6 D. Clements - Careers session (with M. Penston and H. Walker)
10.30	Refreshments					
	G34 M. Hendry 11. Bayesian techniques in astronomy	G31 S. Rawlings 12. Supermassive black holes	G29 M. Haehnelt 13. Feedback in galaxies	G33 J. Zarnecki 14. Planetary probes	G28 W. Chaplin & R. Erdelyi 15. Coronal seismology (UKSP)	
11.00	M. Pitkin 10.1 Bayesian techniques in gravitational wave data analysis	A. Lawrence 12.1 Quasars : 5 problems	S. Morris 13.1 The interaction between the IGM and galaxies	N. Teanby 14.1 Global variations of nitrile and hydrocarbon abundance in Titan's atmosphere derived from Cassini CIRS observations	B. Roberts (invited) 15.1 Coronal seismology: theoretical aspects	
11.15	J. Veitch 10.2 An MCMC-based search for signals in noise.	S. Nolan 12.2 H.E.S.S. Observations of the galactic centre	J.S. Vink 13.2 Massive star feedback -- from the first stars to the present	R. de Kok 14.2 Abundance measurement of oxygen compounds in Titan's stratosphere by Cassini/CIRS	V. Nakariakov (invited) 15.2 Observational aspects of MHD coronal seismology	
11.30		P. Alexander 12.3 Triggering and fuelling of AGN: a SLOAN perspective	J. Tedds 13.3 2dF identifications in XMM-Newton Serendipitous sky survey	M. Towner 14.3 First Results from the Huygens Surface Science Package		
11.45	M. Harva 10.3 A new Bayesian look at estimating gravitational lens time delays	E. Belsole 12.4 A high quality X-ray sample of $z > 0.5$ 3CRR radio sources: multiwavelength core properties		P. Irwin 14.4 Cassini CIRS observations of the atmospheres of Saturn and Titan	B. Carter 15.3 MHD waveguide modes in structured magnetic flux tubes	
12.00	A. Liddle 10.4 Statistics for cosmological model selection'	D. Alexander 12.5 Rapid growth of black holes in distant star-forming galaxies	N. Jetha 13.4 Relativistic jets and the intra-galactic medium		A.J. Diaz 15.4 Fast MHD oscillations in periodic Cartesian fibrils	
12.15		A. Martinez-Sansigre 12.6 Type-2 QSOs at $z > 2$	N. Brassington 13.5 The evolution of outflows in merging galaxies	L. Fletcher 14.5 Preliminary Results from Cassini/CIRS: Measuring Isotope Ratios and Deep Elemental Abundances on Saturn	E. Verwichte 15.5 Transverse waves in a post-flare supra-arcade	
12.30	10.5 1 minute poster presentations		13.6 1 minute poster presentations		U. Mitra-Kraev 15.6 X-ray oscillations in stellar coronae	
12.30	G34 - Lunch meeting: Young astronomers - Dave Clements & Helen Walker					

Wednesday 6th April p.m.

14.00	G31 - Plenary: Fundamental physics and the early universe				
	Andrew Liddle - Inflation and the standard cosmological model Andre Lukas - String cosmology				
15.30	Refreshments				
	G29 I. Smail 16. The first galaxies	G34 A. Richards 17. Astro-chemistry: current trends and future directions	G33 D. Wark 18. Astroparticle and fundamental physics	G31 A. Norton 19. Accretion onto compact objects	G28 W. Chaplin & R. Erdelyi 20. Coronal heating (UKSP)
16.00	M. Bremer 16.1 Observations of the first galaxies	J. Buckle 17.1 HARP-B: mapping the chemistry and kinematics of star formation	P. Chadwick 18.1 Results from the H.E.S.S. gamma ray telescopes	M. Truss 19.1 Accretion flows in tidally unstable compact binaries	R. Erdelyi (invited) 20.1 Heating mechanisms of the solar corona
16.15	A. Bunker 16.2 Galaxies at $z \sim 6$ in the HST UDF	J. Kirk 17.2 Dense condensations in the ISM: progenitors of star formation	J. Knapp 18.2 Status and first results on ultra-high energy cosmic rays from the Pierre Auger Observatory	B. Gaensicke 19.2 The Cataclysmic variable population of the HQS and SDSS	C. Parnell (invited) 20.2 Observational signatures of coronal heating
16.30	R. McMahon 16.3 Starforming galaxies at $z=6$ and beyond	L. Harvey-Smith 17.3 Masers studies in the ISM: the Milky Way and beyond	B. Varcoe 18.3 Precision tests of Lorentz invariance using 'slow light'	G. Ramsay 19.3 Ultra-Compact binaries	G. Hornig 20.3 Three-dimensional magnetic reconnection
16.45	C. Lacey 16.4 Predictions for properties of the first galaxies from CDM	C. Lintott 17.4 Hot cores: a powerful probe of high-redshift galaxies?	T. Sumner 18.4 Satellite test of the equivalence principle	D. Reed 19.4 XMM observations of the dipping, bursting LMXB XB1323-619	Y. Taroyan 20.4 Nanoflare heating of coronal loops: study of emission-line profiles
17.00			C.N. Colacino 18.5 Extra dimensions, gravitational waves and dark energy	D. Bewsher 20.5 Deriving plasma velocity information from CDS/NIS observations	I. De Moortel 20.6 Numerical simulations of coronal heating at separators and separatrixes
17.15			18.6 1 minute poster presentations	19.5 1 minute poster presentations	
17.30					
19.30	Conference Dinner at the Birmingham Botanical Gardens				

Thursday 7th April a.m.

09.00	G31 - Plenary: Star formation and galaxy evolution				
	Roger Davies - Galaxy evolution and the Eyes of SAURON Neal Evans - Star formation in a galactic context				
10.30	Refreshments				
	G31 A. Aragon-Salamanca 21. Galaxy evolution	G29 V. Eke 22. The distribution of mass	G34 A. Lasenby 23. Primordial fluctuations and cosmological back-grounds	G33 R. Sharples 24. New astronomical instrumentation	G28 W. Chaplin & R. Erdelyi 25. Active regions and flares PART I (UKSP)
11.00	R. Whitaker 21.1 Star formation history of the Universe from CNO2	D. Bacon 22.1 Probing mass with gravitational lensing	A. Challinor 23.1 Searching for the cosmic gravitational wave background with Clover	R. McDermid 24.1 Progress and Prospects with GLAS: A Rayleigh laser beacon for the WHT	L. Harra (invited) 25.1 Observations of active region and flares
11.15	V. Wild 21.2 Detection of dust in metal absorption line systems	F. Simpson 22.2 Illuminating dark energy with Cosmic Shear	C. Ungarelli 23.2 Inflationary cosmology, CMB and gravitational waves: testing the slow-roll paradigm with the Big Bang Observer	M. Colless 24.2 WFMOS: the ultimate survey spectrograph?	S. Dalla 25.2 Particle acceleration at a 3D reconnection site in the solar corona
11.30	H. Khosroshahi 21.3 Fossil galaxy groups; evolution of galaxies in isolated systems	D. Radburn-Smith 22.3 Peculiar velocities: probes of the Local Mass Distribution	P. Mukherjee 23.4 Primordial power spectrum reconstruction	I. Parry 24.3 DAZLE - searching for star formation at z=7.7	D. Williams 25.3 The helical kink instability as the possible driver of a CME
11.45	J. Rasmussen 21.4 Gas stripping in galaxy groups - the peculiar case of NGC 2276	K. Masters 22.4 Galaxy Flows in and around the Local Supercluster	A. Moss 23.5 Constraints on the solid dark Universe	J. Young 24.4 UK science and technology participation in the Magdalena Ridge Observatory Interferometer	R. Galloway 25.4 Cross-field diffusion of electrons in tangled coronal magnetic fields
12.00	S. Bamford 21.5 Disk galaxy evolution in clusters and the field	G. Pratt 22.5 The mass distribution is galaxy clusters and the M-T relation	R. Savage 23.6 Combining CMB and galaxy survey data to measure the late-time ISW effect	S. Ramsay Howat 24.5 The KMOS multi-IFU spectrometer for the ESO very large telescopes	G. Attrill 25.5 Magnetic fields in coronal dimming regions
12.15	21.6 1 minute poster presentations	N. Libeskind 22.6 The satellites of the Milky Way	J. McEwan 23.7 CMB analysis using fast directional spherical wavelets	24.6 1 minute poster presentations	K. McClements 25.6 Fokker-Planck modelling of asymmetric footpoint hard X-ray emission in solar flares
12.30	21.6 1 minute poster presentations				
12.30	G28 - Lunch meeting: International Heliophysical Year 2007 - Richard Harrison				

Thursday 7th April p.m.

14.00

**Avon Room - Plenary: Posters
RAS poster competition**

15.30

Refreshments

16.00

**RAS - PPARC Meeting
Including:**
Prof. Kathy Whaler - The RAS yesterday, today & tomorrow (including the launch of a new RAS website)
Dr. Martin Hendry - Did we really land on the moon?
Prof. Keith Mason - How should PPARC evolve to adapt to new challenges?

17.30

18.30

**Think Tank, Millennium Point - Public Lecture
Simon Singh - Big Bang**

Friday 8th April a.m.

09.00	G31 - Plenary: Solar stellar connection				
	Robert Rosner - Connecting theory and observations of stellar magnetic activity: new results and new problems Mike Lockwood - Long-term solar variability: implications for global warming				
10.30	Refreshments				
	G33 F. Pearce 26. Baryon physics in cosmology: simulations	G31 R. Jeffries 27. Low mass stars and stellar activity	G34 P. Roche 28. Astronomy in schools	G29 S. Oliver 29. Spitzer results	G28 W. Chaplin & R. Erdelyi 30a. Active regions and flares PART II (UKSP)
11.00	C. Dobbs 26.1 Molecular cloud formation in spiral galaxies.	D. Mackay 27.1 Polar caps on active stars: magnetic flux emergence and transport	P. Roche 28.1 Introduction M. Edmunds 28.2 The PPARC science and society programme	P. Meikle 29.1 Supernova studies with the Spitzer Space Telescope	R. Turkmani 30.1 Particle acceleration in stressed coronal magnetic fields J. Khan 30.2 Multi-wavelength study of flaring footpoints
11.15		A. Wilmot-Smith 27.2 Low-order dynamo models		J. Fabbri 29.2 Supernovae and the origin of dust in galaxies - first results from SST IRAC and MIPS	30b. From the solar wind to the heliosphere (UKSP)
11.30	C. Short 26.2 Wave-mechanics and cosmological structure formation	N. Dunstone 27.3 The densely packed prominences on Speedy Mic	H. Mason 28.3 The Sun, our star	T. Babbedge 29.3 SWIRE galaxy evolution; recent results	A. Breen (invited) 30.3 Probing the inner heliosphere: results of remote-sensing radio observations
11.45	F. Pearce 26.3 The millennium gas simulation	R. Blackwell-Whitehead 27.4 Laboratory measurements for low mass star studies.	G. Williams 28.4 Teaching astronomy in secondary schools	I. Waddington 29.4 Large-scale structure in the SWIRE legacy survey	P. Young 30.4 The FIP effect at the base of the solar wind
12.00		J.S. Vink 27.5 The inner circumstellar structure of T Tauri stars	M. Cripps 28.5 Space observatories in school	L. Douglas 29.5 Rest-frame properties of galaxies at the highest redshifts	D. Simpson 30.5 Absolute and convective instabilities of circularly polarized Alfvén waves M.D. Popescu 30.6 Long time periods above Coronal Holes
12.15	C. Booth 26.4 A Multiphase, sticky particle star formation recipe for cosmological simulations	E. Ansbro 28.7 Kingsland Observatory: wide range of instrumentation for education	A. Newsam 28.6 The National Schools Observatory	L. Douglas 29.5 Rest-frame properties of galaxies at the highest redshifts	R. Fallows 30.7 Very long baseline observations of interplanetary scintillation using EISCAT and MERLIN
12.30	G34 - Lunch meeting: Astronomy in Schools - Paul Roche				

Friday 8th April p.m.

14.00	Plenary: Cosmology and structure formation			
	<p>Simon White - Large scale simulation of the galaxy/AGN population Matthew Colless - Once and future surveys Paul Roche - Astronomy in schools (running in parallel from 13.30)</p>			
15.30	Refreshments			
	<p>G31 D. Ward-Thompson 31. Star formation: model vs. observations</p>	<p>G33 T. Ponman 32. Baryon physics in cosmology: observations</p>	<p>G29 S. Morris 33. Future observing opportunities</p>	
16.00	<p>A. Whitworth 31.1 How do brown dwarfs form?</p>	<p>B. Maughan 32.1 Cluster scaling relations and the evolution of galaxy clusters</p>	<p>R. Rутten 33.1 Opportunities for the La Palma observatory</p>	
16.15	<p>N. Deacon 31.2 SIPS: The Southern Infrared Proper Motion Survey</p>	<p>E. Belsole 32.2 The effect of galaxy cluster mergers on the gas physics</p>	<p>M. Colless 33.2 The Future of the AAO</p>	
16.30	<p>S. Sim 31.3 Hydrogen recombination lines in massive YSOs: bridging the gap between observation and theory</p>	<p>A. Sanderson 32.3 Scaling Properties of the Intracluster Medium: Insights from Chandra</p>	<p>R. Johnson 33.3 New instrumentation for Gemini</p>	
16.45	<p>D. Nutter 31.4 Star Formation in RCrA</p>	<p>G. Pratt 32.4 An update on entropy scaling for nearby galaxy clusters</p>	<p>I. Hook 33.4 Extremely Large Telescopes: Status and Scientific Prospects</p>	
17.00	<p>M. Sakano 31.5 The X-ray view of the Galactic Centre region with XMM-Newton</p>	<p>K. Sabirli 32.5 An XCS study of Cluster scaling relationships</p>	<p>J. Emerson 33.5 VISTA: Status</p>	
17.15	<p>S. Gregory 31.6 Magnetic Accretion in CTTs with Realistic Fields</p>	<p>32.6 1 minute poster presentations</p>	<p>33.6 1 minute poster presentations</p>	
17.30	<p>31.7 1 minute poster presentations</p>			