

European Week of Astronomy & Space Science (JENAM 2009)
Sessions and talks – ordered by rooms and times

Monday

Plenary Programme: 9.00–10.30

Location: Weston Auditorium

Conference Introduction:

09:00 – Welcome from UoH Vice-Chancellor, Prof. Tim Wilson

09:05 – RAS introduction – RAS President, Prof. A. Fabian

09:10 – Address to conference by Lord Drayson

Plenary science talks (Chair: Mike Hapgood, RAS Vice-President)

09:50 – STEREO: from the Sun to the Earth – Richard Harrison, RAL Chilton

10.10 – Electron Acceleration and Loss in the Radiation Belts – Richard Horne, BAS Cambridge

Parallel Programme 1: 11.00–12.30

Plans and opportunities for European astronomy

Location: Weston Auditorium

11:00 – The ASTRONET Science Vision and Joint Call – Frank Molster

11:23 – The ASTRONET Infrastructure Roadmap – Mike Bode

11:45 – The ASPERA Roadmap – Stavros Katsanevas

12:08 – ERC - The New Opportunity for Fundamental Research in Europe – Teresa Lago

Understanding substellar populations and atmospheres: from brown dwarfs to exo-planets

Location: N001

11:00 – Model Atmospheres for Brown Dwarfs and Extrasolar Giant Planets – France Allard

11:30 – The PHOENIX BT-Settl Models of Brown Dwarf and Gas Giant Planet Atmospheres – Derek Homeier

11:50 – An Ammonia Line List for Modelling Brown Dwarfs and Exoplanet Atmospheres – Bob Barber

12:10 – Mid Infrared Variability in Binary Brown Dwarfs – Michael Sterzik

UK Solar Physics Meeting – Structure and activity in the solar atmosphere

Location: N002

11:00 – The Role of Magnetic Fields in the Scattering of p-modes – Andrew Gascoyne

11:15 – Probing the 3D structure of the F-corona with the STEREO Heliospheric Imagers – Daniel Brown

11:30 – Nanoflare heating of the solar corona – Alan Hood

11:45 – Demystifying Active Region Outflows detected by Hinode’s EIS using Numerical Simulations – Michelle Murray

12:00 – X-ray emission from an erupting filament observed by RHESSI and TRACE – Nicolas Labrosse

12:15 – Hinode EIS observations of a limb active region – Brendan O’Dwyer

The next era in radio astronomy – the pathway to SKA

Location: N003

Overview of SKA projects

11:00 – A European Vision for Radio Astronomy: Pathway to the SKA – Thijs van der Hulst

11:15 – The Square Kilometre Array – Richard Schilizzi

11:30 – Widefield Techniques for the SKA using Aperture Arrays – Arnold van Ardenne

11:45 – The Latest on Aperitif – Tom Oosterloo
12:00 – Science with the Australian Square Kilometre Array Pathfinder – Simon Johnston
12:15 – The MeerKAT Telescope Justin Jonas

MHD seismology of solar, space and astrophysical plasmas

Location: N105 (joint with MIST)

Earth’s and Planetary Magneto-Seismology

11:00 – Magnetoseismology: Remote Sensing the Earth’s Magnetosphere Using MHD Waves – Frederick Menk

11:30 – Modulation of NTC frequencies by Pc5 ULF Pulsations: Experimental test of the generation Mechanism and Magnetoseismology of the Emitting Surface – Clair Foulton

11:45 – Sounding of Space Plasma with ULF Waves: Lessons from the Earth’s Magnetosphere – Evgeny Fedorov

12:00 – An Empirical Model for P13/Pc5 Parameters at High Latitudes – Nadezda Yagova

12:15 – Studying Ganymede’s Magnetosphere with ULF Waves: – Martin Volwerk

MIST

Location: N105 (joint session with ‘MHD seismology.’, see above)

The standard cosmological models - successes and challenges

Location: N110

11:00 – CMB Constraints on Cosmology (Review Talk) – Antony Lewis

11:25 – Experimental Particle Physics Constraints on Dark Matter (Review Talk) – Neil Spooner

11:50 – First Science Results from the ZEPLIN - III Direct Dark Matter Search – Tim Sumner

12:00 – Measuring B-mode polarization with Clover – Michael Jones

12:10 – Discussion

Explosive transients in distant galaxies

Location: N201

11:00 – When Cores Collapse: a Variety of Stellar Deaths – Avishay Gal-Yam

11:30 – Adaptive Optics Assisted Infrared Searches for Supernovae – Seppo Mattila

11:42 – e-EVN and Global VLBI Observations of SN 2007gr – Zsolt Paragi

11:54 – SN 2008S: an Electron Capture SN from a Super- AGB Progenitor? – Maria Boticella

12:06 – The First Case of a Low Energy Stripped- Envelope Core-Collapse Supernova – Stefano Valenti

12:18 – On the Possible Nature of the Unusual Optical and XRay Transient SCP06F6 – Boris Gaensicke

Mercury - recent insights and future goals

Location: N205

11:00 – Mercury: It’s not the Moon! – David Rothery

11:30 – A New View of Mercury: What BepiColombo MIXS Can Expect to Find – John Bridges

12:00 – The Mercury Imaging X-ray Spectrometer (MIXS) – Adrian Martindale

Outflows, feedback and the central engines of active galactic nuclei

Location: N208

Outflows and Feedback I

11:00 – AGN Feedback – Andrew King

11:30 – Modelling X-Ray Spectra for AGN Outflows – Stuart Sim

11:45 – Hunting Ghosts: Observational Evidence for Radiatively Driven Outflows in Quasars – Chris Cottis

12:00 – Radio Constraints on the Volume Filling Factors of AGN Winds – Alexander Blustin

12:15 – Outflows and Non-Circular Motions in Nearby AGN Observed with Integral- Field Spectrograph OASIS
– Ivana Stoklasova

Parallel Programme 2: 14.00–15.30

Europe's medium telescopes – status and prospects

Location: Weston Auditorium

14:00 – The OPTICON Trans-National Access Programme – John Davies
14:10 – Nationally Operated Telescopes: An Obsolete Paradigm? – Johannes Andersen
14:25 – ING, La Palma - 2020 Vision – Chris Benn
14:40 – The New La Silla Operations Paradigm – Michael Sterzik
15:00 – Calar Alto 2.0 – Joao Alves
15:15 – Medium Sized Telescopes and Training of Young Researchers – Michel Dennefeld

Understanding substellar populations and atmospheres: from brown dwarfs to exo-planets

Location: N001

14:00 – Cool Benchmarks Down to the Water Cloud Regime – Ben Burningham
14:20 – Testing Substellar Models with Dynamical Mass Measurements – Trent Dupuy
14:40 – Substellar Companions to White Dwarfs in UKIDSS – Paul Steele
15:00 – Masses and Radii of Brown Dwarfs in Interacting Binaries – Stuart Littlefair
15:15 – Low-Mass Object in Moving Groups – Maria-Cruz Galvez-Ortiz

UK Solar Physics Meeting

Location: N002 (joint with 'MHD Seismology', see below)

MHD seismology of solar, space and astrophysical plasmas

Location: N002 (joint with UKSP)

Solar Coronal Seismology

14:00 – Transverse Waves and Oscillations in the Solar Corona – Erwin Verwichte
14:30 – Kink Oscillations of Cooling Coronal Loops – Robertus Erdelyi
14:45 – Seismology of Transversely Oscillating Coronal Loops and Prominence Threads – Inigo Arregui
15:00 – Detection of Three Periodicities in a Single Oscillating Coronal Loop – Tom Van Doorselaere
15:15 – Coronal Seismology of 3D Numerical Simulations of Transverse Loop Oscillations – Ineke De Moortel

The next era in radio astronomy – the pathway to SKA

Location: N003

e-EVN/e-MERLIN, a high resolution window to SKA
14:00 – The e-EVN: a Realtime VLBI Instrument – Zsolt Paragi
14:20 – e-MERLIN – Simon Garrington
14:30 – Radio Emission from Super-Grains: Observing Planets Form – Jane Greaves
14:45 – COBRAS - e-MERLIN Cyg OB2 Radio Survey – Danielle Fenech
15:00 – Relativistic Jet Physics with e-MERLIN – Robert Laing
15:15 – The E-MERGE Legacy Program – Scott Chapman

Epoch of Retonisation – first light to the earliest galaxies currently known

Location: N101

14:00 – Introduction
14:02 – Phenomenology of Retonization and the CMB – Richard Battye
14:30 – Observability of the Epoch of Retonization: the View from the Simulations – Iljan Iliev
14:50 – Theoretical Modelling of Inhomogeneous Retonization by Combining Radiative Transfer and Galaxy Formation Modelling – Milan Raicevic
15:05 – Ly α Radiation Transfer in Hydrodynamical Simulations of Galaxies – Anne Verhamme
15:20 – Poster Session – Eric Tittley, Luke Davies, Alvaro Orsi

MIST – Planetary Session

Location: N106

14:00 – Negative ions at Titan and Enceladus: recent results – Andrew Coates
14:15 – The Saturnian ring current as revealed through plasma, energetic particle and magnetic field measurements – Stephanie Kellett
14:30 – Search for a cushion region at Saturn – Daniel Went
14:45 – Electron Optical Study of the Venus Express ASPERA-4 Electron Spectrometer (ELS) Top-Hat Electrostatic analyser – Glyn Collinson
15:00 – A Preliminary Review of Ionospheric Photoelectrons at Venus – Sharon Tsang
15:15 – Ionospheric photoelectrons as tracers of magnetic field lines in Titans plasma environment – Andrew Coates

The standard cosmological models - successes and challenges

Location: N110

14:00 – Evidence for Dark Energy (Review Talk) – Andy Taylor
14:25 – Simulations of Quintessential Cold Dark Matter: Beyond the Cosmological Constant – Elise Jennings
14:35 – Searching for Evolution in the Spectra of Type Ia Supernovae – Emma Walker
14:45 – Evidence Against an Accelerating Universe? – Tom Shanks
15:00 – Masses of Galaxies, Groups and Clusters via QSO Lensing – Utane Sawangwit
15:05 – Discussion

Explosive transients in distant galaxies

Location: N201

14:00 – An Introduction to Gamma-Ray Bursts – Ralph Wijers
14:30 – Recent Progress on Short GRBs – Andrew Levan
14:42 – Beyond the Fireball Model : the Impact of Prolonged Central Engine Activity – Andrea Melandri
14:54 – The Energetics of GRB 080721 and Constraints on its Progenitor – Rhaana Starling
15:06 – The Spiral GRB Host Galaxies – Klaas Wiersema
15:18 – Can Some X-Ray Plateaus Followed by a Steep Decay be Powered by a New-Born Magnetar as the GRB Central Engine? – Nicola Lyons

Outflows, feedback and the central engines of active galactic nuclei

Location: N208

Outflows and Feedback II

14:00 – X-Ray Spectra of AGN: Obscuring Material and Winds – Lance Miller
14:20 – AGN-Induced Feedback in Young, Radio-Loud AGN – Joanna Holt
14:40 – Giant outflows in powerful radio galaxies: evidence for AGN feedback in high-z galaxies, and beyond. – Nicole Nesvadba

15:00 – A Multi-Wavelength View of Accretion Modes in Radio-Loud AGN – Martin Hardcastle
15:15 – Feedback in the AGN Population of the Extended Groth Strip – Jose-Miguel Rodriguez-Espinosa

Plenary: EAS Prize Lecture

Location: Weston Auditorium

16:00 – EAS introduction and award to Tycho de Brahe Prize recipient
16:05 – EAS Tycho Brahe Prize Lecture: Kinematically decoupled galaxies – Francoise Combes (Observatoire de Paris, France)

Parallel Programme 3: 16.30–18.00

Europe's medium telescopes – status and prospects

Location: Weston Auditorium

16:30 – AAO Wide-Field Spectroscopy Facilities – Matthew Colless
16:50 – UKIRT: Current Status and Future Plans – Gary Davis
17:00 – Canada- France- Hawaii Telescope: Status and Prospects – Christian Veillet
17:15 – Recent Results and Future Improvements of OHP 193cm Telescope with SOPHIE – Michel Bor
17:30 – The 2 Meter Telescope of the National Astronomical Observatory Rozhen: Status and Prospects – Tanyu Bonev
17:45 – Robotic Telescopes: The Liverpool Telescope Experience – Iain Steele
18:00 – The Magdalena Ridge Observatory Interferometer (MRO1): First Light and Beyond – David Buscher

Understanding substellar populations and atmospheres: from brown dwarfs to exo-planets

Location: N001

16:30 – ESO AO Instrumentation for BD and Exoplanet Research – Markus Kasper
17:00 – UKIRT Planet Finder – Hugh Jones
17:15 – The OmegaCAM Transit Survey - Revised Survey Strategy and Early Results – Johannes Koppenhoefer
17:30 – High Contrast Observations with EPICS (ExoPlanet Imaging Camera and Spectrograph) – Graeme Salter
17:45 – Measuring the Frequency and Composition of Extrasolar Minor Planets – Jay Fathi

UK Solar Physics Meeting – Magnetic Reconnection

Location: N002 (joint with MIST)

16:30 – A comparison of 2D PIC simulations of collisionless magnetic reconnection in sheared and unsheared current sheets – Thomas Neukirch
16:45 – Magnetosonic Mach number dependence of the efficiency of reconnection between the interplanetary and terrestrial magnetic fields – Adrian Grocott
17:00 – Oscillatory Reconnection driven nonlinear fast magnetoacoustic wave propagation in the neighbourhood of a 2D magnetic X-point – James McLaughlin
17:15 – Interchange reconnection signatures in the solar wind linked to eruption from an active region inside a coronal hole - STEREO, ACE and Hinode data combined – Deborah Baker
17:30 – Effect of non-uniform resistivity on forced magnetic reconnection – Mykola Gordovskyy
17:45 – The nature of separator reconnection – Andrew Haynes
18.15 to 19.30 – UKSP poster viewing session

The next era in radio astronomy – the pathway to SKA

Location: N003

Science with SKA, SKA pathfinders and synergies with other wavebands
16:30 – Polarization and Spectral Surveys with Aperture Arrays on the SKA – Paul Alexander

16:45 – Synergies between SKA and ALMA – Leonardi Testi
17:00 – Synergies between SKA and ELT – Roberto Gilmozzi
17:15 – At the Beginning was the Hydrogen: Simulations for The SKA – Danail Obreschkow
17:30 – Simulating the Radio Sky on the Pathway to the SKA – Filipe Abdalla
17:45 – The Atlas3D Survey of HI in Early-Type Galaxies – Paolo Serra

Epoch of Reionisation – first light to the earliest galaxies currently known

Location: N101

16:30 – New Results on Reionization from Metal Absorption Lines – George Becker
16:58 – Probing reionization with the UKIDSS quasar ULASJ1319+0950 – Mitesh Patel
17:10 – JANUS Will Find Hundreds of Quasars $6z_{\rm f}10$ by 2015 – Stephen Warren
17:25 – Pushing to the Limits: NB Imaging and NIR Spectroscopy of Critical Line Mapping – Jean-Paul Kneib
17:40 – Star Formation at $z_{\rm f}6$ and Implications for Reionization – Andrew Bunker
17:55 – The Search for Galaxies at $z_{\rm f}7$ – James Dunlop

MHD seismology of solar, space and astrophysical plasmas

Location: N105

MHD Seismology
16:30 – Diagnostics of Stellar Coronae using Quasi-Periodic Pulsations – Alexander Stepanov
17:00 – Heating Diagnostics with Magnetoseismology – Youra Taroyan
17:15 – Multi-Periodic Oscillatory Events in Solar Flares – Andrew Inglis
17:30 – The Nature of Kink MHD Waves in Magnetic Flux Tubes – Marcel Goossens
17:45 – Stellar Oscillations and Magnetic Fields – Michael Thompson

MIST

Location: N002 (joint with UKSP)

The standard cosmological models - successes and challenges

Location: N110

16:30 – Cosmic Shear Results from the CFHTLS – Henk Hoekstra
16:40 – The Impact of Intrinsic Alignments on Cosmology from Weak Gravitational Lensing – Donnacha Kirk
16:50 – Beyond Standard Models with 3D Cosmic Shear – Tom Kitching
17:00 – Locating the Baryon Acoustic Peak – Fergus Simpson
17:10 – What Do Galaxy Surveys Really Teach Us? – Molly Swanson
17:20 – Discussion
17:35 – Poster Review

Explosive transients in distant galaxies

Location: N201

16:30 – The Next Generation of Surveys and Transient Science – Rubina Kotak
16:50 – The Naked-Eye Gamma-Ray Burst 080319B – Nial Tanvir
17:02 – Particle Acceleration in the Jets of Swift GRBs – Peter Curran
17:14 – Realistic Model for the Prompt and High Latitude Emission in GRBs – Franck Genet
17:26 – A Statistical Study of UVOT GRB Afterglows – Samantha Oates
17:38 – Swift-UVOT Captures the Earliest Ultraviolet Spectrum of a Gamma Ray Burst: GRB081203A – Paul Kuin
17:50 – Near and Far: Luminosity Function Evidence for a Separate Population of Nearby, Under-Luminous Long GRBs – Bob Chapman

Outflows, feedback and the central engines of active galactic nuclei

Location: N208

AGN Unification and Surveys

16:30 – SUZAKU Observations of Bright Compton-Thin Seyfert 2 Galaxies – Valentina Braito

16:45 – The Seyfert AGN RX J0136.9-3510 and the Spectral State of Super Eddington Accretion Flows – Chichuan Jin

17:00 – A Sample of Radio Galaxies Spanning Three Decades in Radio Luminosity: The Fundamental Plane – Peter Herbert

17:15 – A Dichotomy in Radio Jet Orientations in Elliptical Galaxies – Ian Browne

17:30 – X-Ray-IR Diagnostics for High Redshift Active Galaxies – Murray Brightman

17:45 – Towards a Complete Census of Local AGN Activity: A Large Population of Optically Unidentified AGNs – Andy Goulding

Tuesday

Plenary Programme: 9.00–10.30

Location: Weston Auditorium

ESO programme (Chair: Joachim Krautter, EAS President)

09:00 – ESO overview – Tim de Zeeuw, Director General ESO

09:30 – Exo-planets – Michel Mayor, Geneva

10:00 – Dynamics and Evolution of Star Forming Galaxies at $z=1-3$ – Linda Tacconi, MPE Garching

Parallel 1: 11.00–12.30

ESO Parallel: ALMA

Location: Weston Auditorium

11:00 – ALMA Project: Science and Status – Robert Laing

11:40 – ALMA Science Operations – Paola Andreani

12:20 – ALMA Regional Support Centre – Tom Muxlow

Understanding substellar populations and atmospheres: from brown dwarfs to exo-planets

Location: N001

11:00 – Direct Imaging of Multiple Planets Orbiting HR 8799 – Jenny Patience

11:20 – Homogeneous Comparison of Planet Candidates Imaged Directly – Ralph Neuhaeuser

11:45 – Transiting Planets: from Hot Jupiters to Super-Earths – Elaine Simpson

12:10 – Detection of a Transit by the Eccentric- Orbit Planetary Companion to HD 80606 – Steve Fossey

UK Solar Physics Meeting - Particle Acceleration I

Location: N002 (joint with MIST)

11:00 – Solar acceleration and transport of energetic particles: observations (Review Talk) – Lyndsay Fletcher

11:20 – Particle acceleration in solar flares - An overview of theoretical ideas (Review Talk) – Thomas Neukirch

11:30 – Investigation of acceleration sources of the major SEP event on 13 December 2006 – Chuan Li

11:55 – Effect of polarisation electric field on particles acceleration in a reconnecting current sheet – Taras Siversky

12:10 – Detecting and interpreting Quiet Sun energetic neutrons in the inner heliosphere – Alex MacKinnon

12:25 – Poster Reports

The next era in radio astronomy – the pathway to SKA

Location: N003

LOFAR, exploring the low frequency sky

11:00 – LOFAR: Current Status, Scientific Programmes and Exploration for the SKA – Rene Vermeulen

11:15 – The LOFAR Epoch of Reionization Key Project – Leon Koopmans

11:33 – Deep Extragalactic Surveys with LOFAR – Philip Best

11:51 – Detecting High Energy Cosmic Rays with LOFAR – Andreas Homeffer

12:09 – Pulsars: From LOFAR to the SKA – Ben Stappers

The local volume: constraints on galaxy formation and evolution

Location: N101

Black Holes

11:00 – Black Hole Scaling Relations – John Magorrian

11:20 – The SINFONI Black Hole Survey – Roberto Saglia

11:40 – Feeding the Central Black Hole and Nuclear Starbursts: Gas Inflow in Nuclear Spirals – Witold Maciejewski
 12:00 – Dynamical Properties of Nearby Early-Type Galaxies through Atlas3D Survey – Davor Krajnović
 12:20 – A Census of Nuclear Stellar Disks in Early-type Galaxies – Hugo Ledo

MHD seismology of solar, space and astrophysical plasmas

Location: N105
 MHD Seismology
 11:00 – Magnetar Seismology – Nils Andersson
 11:30 – A Unified View on the Coronal Loop Eigenmode Problem and the Scattering of p-modes by Photospheric Fluxtubes – Jesse Andries
 11:45 – Chromospheric Seismology – Kevin Reardon
 12:00 – Magneto-Seismology with Alfvén Waves – Gary Verth
 12:15 – Fast Quasi-Periodic Pulsations in Solar Microwave Bursts – Baolin Tan

MIST

Location: N002 (joint with UKSP)

The standard cosmological models - successes and challenges

Location: N110
 11:00 – Theoretical Models of Dark Energy (Review Talk) – Ed Copeland
 11:25 – Review on Modified Gravity (Review Talk) – Ruth Durrer
 11:50 – Cosmological Parameters from Photometric Redshift Surveys – Filipe Abdalla
 12:00 – The Case for European Involvement in LSST – Bob Mann
 12:05 – Discussion

X-ray astronomy in the next decade

Location: N 201
 11:00 – The International X-ray Observatory – Arvind Parmar
 11:20 – Decoding X-Ray Variability – Phil Uttley
 11:40 – The First Detection of a Broad Iron L Line and Reverberation in NLS1 1H0707-495 with XMM-Newton – Abderahmen Zoghbi
 11:50 – The Future of Strong Gravity Studies with X-Ray Spectroscopy – Simon Vaughan
 12:00 – The Ultraluminous State – Jeanette Gladstone
 12:10 – Science with the ASTRO-H X-ray calorimeter and hard X-ray telescope – Andy Fabian

Application of machine learning techniques to astronomical data analysis

Location: N205
 11:00 – Recent Developments in Bayesian Methods in Cosmology – Roberto Trotta
 11:15 – Classification and Astrophysical Parameter Inference for Large Surveys – Coryn Bailier-Jones
 11:30 – Automated classification of variable stars from the CoRoT exoplanet database – Conny Aerts
 11:42 – A Comparison of Photometric Redshift Methods on a Sample of Luminous Red Galaxies – Manda Banerji
 11:54 – Galaxy shapes in Weak Lensing Surveys (GREAT08) – Lisa Voigt
 12:06 – Poster Session – Hourri Ziaeeppour, Ben Rogers, Roman Batuev

Pro-Am Session

Location: N208
 11:00 – Introduction
 11:03 – Statement by the President of the British Astronomical Association – Roger Pickard
 11:05 – Amateur Contributions to the Study of the Atmospheric Dynamics of Jupiter and Saturn – David Arditi
 11:20 – Pro-am Collaboration in CCD Photometry of Cataclysmic Variable Stars – David Boyd
 11:35 – Precision Timing of Occultations, Eclipses, and Transits by Dedicated Amateur Astronomers – Andrew Elliott
 11:50 – Increased Pro-Am Cooperation in Spectroscopy Delivers Results – Robin Leadbeater
 12:05 – Modelling Light Pollution for Sky-Luminance Reduction Based Lighting Standards – Chris Baddilley
 12:15 – Preliminary Results From a 5-Year Variable Star Study in Cygnus – Stan Waterman
 12:25 – Poster Session and Summary

Parallel 2: 14.00–15.30

ESO Parallel: E-ELT

Location: Weston Auditorium
 14:00 – E-ELT Project – Roberto Gilmozzi
 14:30 – Science with the European Extremely Large Telescope – Isobel Hook
 15:00 – E-ELT Instrumentation – Mark Casali

Understanding substellar populations and atmospheres: from brown dwarfs to exoplanets

Location: N001
 14:00 – Transiting exoplanets from the WASP-South Survey – Coel Hellier
 14:20 – The Spitzer/HARPS Search for Nearby Transiting Rocky Planets – Michael Gillon
 14:40 – Groundbased Observations of Hot-Jupiter Atmospheres – Ignas Snellen
 15:00 – New Observations and Modelling of the Exoplanets HD 189733b and HD 209458b – Giovanna Tinetti
 15:15 – Evidence for a Lost Population of Close-in Exoplanets – Peter Wheatley

UK Solar Physics Meeting – Solar/Stellar Interiors

Location: N002
 14:00 – Large- and small-scale turbulent dynamo action (Review Talk) – David Hughes
 14:30 – Probability distribution function of self-organised shear flows – Eunjin Kim
 14:45 – Noise Reduction to reveal low frequency p-modes – Guy Davies
 15:00 – Hydrodynamic instabilities in the solar tachocline – Fayyaz Rashid
 15:15 – The influence of spatial correlations on mean induction and diffusion – Alice Courvoisier

The next era in radio astronomy – the pathway to SKA

Location: N003
 Science with SKA, SKA pathfinders and synergies with other wavebands
 14:00 – Wide-field VLBI Imaging without Supercomputers – Olaf Wucknitz
 14:15 – Space and Planetary Science Frontier of SKA – Leonid Gurvits
 14:30 – Gravitational Lensing of the Cosmic 21 cm Radiation – Robert Metcalf
 14:45 – What Ultra High-Resolution, High-Sensitivity Maser Observations tell us about the Physics of Stellar Winds – Anita Richards
 15:00 – Radio Pulsar Surveys and Neutron- Star Binary Discoveries – Joeri van Leeuwen
 15:15 – SKA Polarised Sky Simulations – Joern Geisbuesch

The local volume: constraints on galaxy formation and evolution

Location: N101

Dark Matter

- 14:00 – Dynamics of Elliptical Galaxies at Large Radii – Orwin Gerhard
- 14:20 – Mass Modelling of the Fornax Dwarf Spheroidal with 2200 Tracers – Gary Mamon
- 14:40 – Orbital Structure, Entropy and Formation of Elliptical Galaxies – Jens Thomas
- 15:00 – Dark Matter in Gravitational- Lens Galaxies – Leon Koopmans
- 15:20 – No Escape from Vesc: a Global and Local Parameter in Early Type Galaxy Formation – Nicholas Scott

Towards the first detection of gravitational waves

Location: N105

- 14:00 – Gravitational Wave Astronomy – Bruce Allen
- 14:30 – The Search for Gravitational Waves from Known Pulsars – Matthew Pitkin
- 14:50 – Searching for gravitational wave bursts associated with gamma-ray bursts – Gareth Jones
- 15:10 – The Search for Low Mass Compact Binary Coalescences in LIGO's S5 Data – Ian Harry

MIST – Particle Acceleration/General Session

Location: N106

- 14:00 – Non stationarity of a collision-less quasi-perpendicular shock: consequences for particle acceleration – Christian Mazelle
- 14:20 – Electron Acceleration at Quasi-perpendicular Shocks – David Burgess
- 14:40 – Using CLUSTER II to investigate the dissipation/dispersion range of solar wind turbulence – Khuram Kiyani
- 14:55 – Radio wave heating of the plasma in the polar mesosphere: diagnosis using cross-modulation – Andrew Senior
- 15:10 – Resonant Absorption with 2D Variation of Field Line Eigenfrequencies – Alexander Russell
- 15:25 – Poster Reports

The standard cosmological models - successes and challenges

Location: N110

- 14:00 – Future Surveys (Review Talk) – Matthew Colless 14:25 – Dark Energy and Dark Matter from space (Review Talk) – Alexander Refregier
- 14:35 – The Fundamentals of Cosmology (Panel Discussion) – Ofer Lahav (Chair)

X-ray astronomy in the next decade

Location: N201

- 14:00 – The Coolest Gas in Galaxy Clusters – Jeremy Sanders
- 14:20 – Evolution of Cluster Properties from IXO Observations – Nathan Slack
- 14:30 – Galaxy Group and Cluster Science with eROSITA – Gabriel Pratt
- 14:50 – Probing the Evolution of Accretion Activity over Cosmic Time – James Aird
- 15:10 – Synergies between Future X-ray and Infrared Facilities – Fabrizio Fiore

In-situ and remote characterisation of minor bodies

Location: N205

- 14:00 – Spectroscopic Investigation of Small NEOs – Sam Duddy
- 14:15 – The Marco Polo Mission: A Sample Return from a Near Earth Object for Laboratory Studies – Ian Franchi
- 14:30 – Surface Properties of Main-Belt Comets – Henry Hsieh
- 14:45 – Photometric study of Distant Comets: C/2002 VQ94 (LINEAR) and 29P/Schwassmann-Wachmann-1. – Alexandra Ivanova
- 15:00 – Characterising the Members of the First TNO 'Collisional Family' – Colin Snodgrass
- 15:15 – A Herschel Survey of the Transneptunian Region – Pedro Lacerda

The IYA 2009 in Europe

Location: N208

- IYA 2009 Big Picture and Cornerstones
- 14:00 – Coordinating Globally the International Year of Astronomy 2009 – Pedro Russo
- 14:20 – '100 Hours of Astronomy' and 'Around the World in 80 Telescopes' – Douglas Pierce-Price
- 14:40 – The IYA2009 cornerstone 'She is an Astronomer' project and website – Helen Walker
- 15:00 – Portal to the Universe – Lars Lindberg Christensen
- 15:20 – Discussion

Parallel 3: 16.00–17.30

How to use ESO - The life-cycle of an ESO observing programme

Location: Weston Auditorium

- 16:00 – Overview of the End-To-End Cycle of an ESO Observing Programme – Fernando Comerón
- 16:18 – OPC - behind the scenes – Elias Brinks
- 16:36 – Spotlight on Paranal Operations: How are Your Observations Made? – Christophe Dumas
- 16:52 – Data Products in the ESO Archive – Martino Romaniello
- 17:10 – You and Your Observatory: The ESO Users Committee – Jacco van Loon

Multi-wavelength high redshift surveys

Location: N001

- First Galaxies - Large-Scale Structure - Galaxy Environments
- 16:00 – Galaxies in the First Few Gyrs (Review Talk) – Matthew Lehnert
- 16:20 – Intense Starbursts at $z \approx 5$: First Stellar Mass Assembly in the Progenitors of Present-Day Spheroids – Aprajita Verma
- 16:30 – Spectroscopy of 70 LBGs at $z_{\text{f}} 4.7$ – Laura Douglas
- 16:40 – Constraints on Star Forming Galaxies at $z_{\text{f}} 6.5$ from HAWKI Y-Band Imaging of GOODS-South – Samantha Hickey
- 16:50 – The clustering properties of high-redshift galaxies and AGNs (Review Talk) – Cristiano Porciani
- 17:10 – The Clustering Properties of Distant Red Galaxies from the UKIDSS Deep Extragalactic Survey – Glen Parish
- 17:20 – Obscured Star Formation as a Function of the Environment in the COSMOS Field – Chiara Feruglio

UK Solar Physics Meeting – The Sun as a Star/Particle Acceleration II

Location: N002

The Sun as a Star

- 16:00 – Comparison of the Soft X-ray Emission from Capella and the Quiet Sun – Kenneth Phillips
- 16:10 – The EUV spectral irradiance of the Sun from 1997 to date – Giulio del Zanna

16:20 – Non-equilibrium effects observed in soft X-ray spectra during stellar flares – Urmila Mitra-Kraev
 Particle Acceleration II
 16:30 – Electron acceleration efficiency in solar flares – Siming Liu
 16:45 – Hard X-ray emission from a flare-related jet – Hazel Bain
 17:00 – Precipitation of impulsive and stationary injected beams in converging magnetic loops – Valentina Zharkova
 17:15 – Electron Beam-Driven Langmuir Wave Interactions in the Inhomogeneous Flaring Solar Corona – Iain Hannah

The Life Cycle of Dust

Location: N003
 16:00 – The Technology of Laboratory Astrophysics – Ian Lyon
 16:15 – In-Situ Measurements of Interstellar Dust in the Solar System – Harald Krueger
 16:30 – Extreme Deuterium- Rich Organic Matter Revealed by Antarctic Ultra-Carbonaceous Micrometeorites from CONCORDIA Collection – Jean Duprat
 16:45 – Ultra- Primitive Interplanetary Dust Particles from the Comet 26P/Grigg- Skjellerup Dust Stream Collection – Henner Busemann
 17:00 – The Fine Detail of Comet Wild 2: TEM And Synchrotron Characterisation – John Bridges
 17:10 – First Detections of Interstellar Ethyl Formate and NPropyl Cyanide: Dust-Grain Chemistry Strikes Again – Robin Garrod
 17:20 – PAHs as carriers of DIBs and AIBs – Peter Sarre

The local volume: constraints on galaxy formation and evolution

Location: N101
 Formation Constraints
 16:00 – Secular Evolution in Spiral Bulges – Daniel Thomas
 16:20 – New Light on the Analysis of Star Formation Histories – Ignacio Ferreras
 16:40 – Galaxy Mergers and the Formation of Elliptical Galaxies – Thorsten Naab
 17:00 – Panel Discussion – Magda Arnaboldi, Aaron Romanowsky, Tom Oosterloo

Towards the first detection of gravitational waves

Location: N105
 16:00 – Gravitational Waves Associated with Timing Glitches in Pulsars – Ik Siong Heng
 16:15 – LISA and LISA Pathfinder – Daniel Hollington
 16:30 – Overview of the monolithic suspension work for Advanced LIGO – Giles Hammond
 16:45 – Optical Sensors for the Next Generation of Gravitational Wave Observatories – Stuart Aston
 17:00 – Displacement Noise Free Interferometry in Gravitational Wave Detectors – Antonio Perreca
 17:15 – Gravitational Wave Signal to Displacement Noise Ratio of a Grating Cavity – Jonathan Hallam

MIST – General Session

Location: N106
 16:00 – Constraining substorm onset with space- and ground-based observations – Andrew Walsh
 16:15 – Splitting arcs and sharp boundaries in the ASK imager – Mina Ashrafi
 16:30 – Effects of current system scale size and location on the curlometer – Colin Forsyth
 16:45 – Combined Electric and Magnetic field measurements in the Medium and Extremely Low frequency bands – Toby Whitley
 17:00 – The eigenfrequency and eigenfrequency variation of the IAR observed by multiple observatories – Kai Yuan
 17:15 – The effect of a purely growing mode in analyses of incoherent scatter spectra – Hannah Vickers

Three decades of gravitational lenses

Location: N10
 The Beginning
 16:00 – Gravitational Lensing - the First Discoveries (Review Talk) – Bob Carswell
 16:30 – More than Three Decades of Lensing Theory (Review Talk) – Prasenjit Saha
 17:00 – The magnification Theorem – Olaf Wucknitz
 17:15 – Nine Decades of Gravitational Lenses – Richard Massey

EAS General Assembly

Location: N106 (to be confirmed)
 17.30 onwards

Wednesday

Plenary Programme: 9.00–10.30

Location: Weston Auditorium

ESA programme (Chair: Andy Fabian, RAS President)

09:00 Astronomy in ESA's science programme – David Southwood, Director of Science ESA

09:50 – Highlights from high energy astrophysics missions – Arvind Parmar, ESTEC

10:10 – Hightlights from solar-terrestrial missions – Daniel Mueller, ESA/GSFC

Parallel 1: 11.00–12.30

ESA parallel – Upcoming ESA Astrophysics Missions

Location: Weston Auditorium

11:00 – Planck's science and mission status – Jan Tauber (ESTEC)

11:25 – Herschel's science and mission status – Goran Pilbratt (ESTEC)

11:50 – Gaia's science programme – Timo Prusti (ESTEC)

12:15 – JWST's science programme – Stefania Carpano (ESTEC)

Multi-wavelength high redshift surveys

Location: N001

Stellar Mass Assembly

11:00 – The History of Mass Assembly: Results and Open Questions (Review Talk) – Adriano Fontana

11:30 – A Major Spectroscopic Campaign Targeting K-Band Selected Galaxies in the UKIDSS Ultra-Deep Survey – Henry Pearce

11:40 – Size Evolution of Early-Type Galaxies – Arjen van der Wel

11:50 – Exploring the Formation of Massive Galaxies in GOODS – Ignacio Ferreras

12:00 – The Star Formation History of Early-Type Galaxies over the Last 8 Billion Years – Sugata Kaviraj

12:10 – The Nature and Clustering of Star-Forming Galaxies at $z=0.84$ – David Sobral

12:20 – The GOODS NICMOS Survey: Early Results – Christopher Conselice

UK Solar Physics Meeting – The unusual (?) solar minimum I

Location: N002 (joint with MIST)

11:00 – When did Solar Cycle 23 go wrong?(Review Talk) – Keith Strong

11:20 – Stark differences between solar activity data and oscillation frequencies observed in BISON data – Anne-Marie Broomhall

11:35 – Observational periodicities of sunspots and background magnetic fields and their role in the future prediction – Valentina Zharkova

11:50 – Open solar flux and irradiance during the current exceptional solar minimum: implications for reconstruction of past solar variability (Review Talk) – Mike Lockwood

12:10 – Heliospheric observations of a deep solar minimum (Review Talk) – Mathew Owens

12:30 to 14:00 – UKSP Business Lunch (Chair: L Fletcher; Secretary, D Mackay)

All are encouraged to attend including students and postdocs. Lunch provided for registered participants.

The life cycle of dust

Location: N003

11:00 – The Cosmic Journey of Dust (Keynote) – Xander Tielens

11:45 – Observational constraints on dust production – Jacco van Loon

12:00 – Cassini CAPS-ELS Observations of Enceladus's Plume – Geraint Jones

12:10 – Trajectories of Charged Icy Dust Grains in the Plume of Enceladus: Modelling and Cassini CAPS Observations – Chris Arridge

12:20 – Experimental and Theoretical Research on the Dust Cloud around Europa and its Application to the Design of a New Hybrid Dust Detector for an Orbiter – Katarina Miljkovic

Star formation: from massive stars to brown dwarfs

Location: N101

Surveys

11:00 – What is the Stellar Mass Function of Whole Galaxies? – Peter Anders

11:20 – Finding all Massive Young Stellar Objects in the Galaxy: the RMS Survey – Rene Oudmaijer

11:40 – Galaxy- Scale Star Formation with the Herschel Infrared Galactic Plane Survey – Sergio Molinari

11:50 – Infrared Dark Cloud Cores in the SCUBA Legacy Catalogue – Harriet Pursons

12:00 – A GMM-EM Algorithm to Search for Stellar Clusters in Large Databases – David Samuel

12:10 – The Gould Belt JCMT Legacy Survey – Derek Ward-Thompson

12:20 – High-Mass Star Formation with the JCMT and Herschel Galactic Plane Survey – Toby Moore

Binary stars – observation and theory

Location: N105

11:00 – CoRoT Eclipsing binaries – Carla Maceroni

11:20 – New Massive, Eclipsing, Double- Lined Spectroscopic Binaries Cyg OB2-17 and NGC 346-13 – Vanessa Stroud

11:30 – The Effect of Massive Binaries on Stellar Populations and Supernova Progenitors – John Eldridge

11:50 – Rotational Mixing in Binaries: a New Formation Channel for Massive Black-Hole Binaries – Selma de Mink

12:10 – Binaries from Afar: Impact on Integrated Photometry of Stellar Populations – Peter Anders

12:20 – V458 Vul: a Nova inside a Planetary Nebula – Roger Wesson

MIST

Location: N002 (joint with UKSP)

The Galaxy and its satellites

Location: N106

11:00 – The Challenge of Modelling the Galaxy in the Era of Gaia – James Binney

11:20 – Surveying the Galaxy from the Ground and Space: the Radial Velocity Experiment (RAVE) and Gaia – George Seabroke

11:30 – The Nature of Runaway Stars Far from the Galactic Plane – Manuel Silva

11:40 – Central Mass and Luminosity of Milky Way Satellites in the LCDM Model – Andrea Maccio

11:55 – The Local Group Satellite Galaxies: Testing Fundamental Physics – Pavel Kroupa

12:10 – On Star Orbits in an Axially Symmetric Force Field – Slobodan Ninkovic

12:20 – Lithium- 6 in metal-Poor Stars – Ana Elia Garcia Perez

Three decades of gravitational lenses

Location: N110

Microlensing

11:00 – Microlensing: Planets, Dark Stars, Stellar Magnifying Glasses (Review Talk) – Andrew Gould

11:30 – Microlensing Planet Hunt with EUCLID – Jean-Philippe Beaulieu

11:45 – Extragalactic Microlensing: Quasars, Caustics & Dark Matter (Review Talk) – Joachim Wambsgans

12:15 – Microlensing as a Tool to Probe the Quasar Structure – Dominique Sluse

The Virtual Observatory and distributed computing

Location: N205

11:00 – VO and GRID in the Context of ESA Science Archives – Christophe Arviset
11:25 – Astronomer- Steered Pipelines for Access to Radio Interferometry Data using VO Techniques – Anita Richards
11:45 – VOSpec: a VO Spectral Analysis Tool – Deborah Baines
12:00 – Data Publishing and Science: The European Virtual Observatory Data Centre Alliance – Jonathan Tedds
12:15 – Bulgarian Virtual Observatory: Link to Astroinformatics – Milcho Tsvetkov

The IYA 2009 in Europe

Location: N208

IYA 2009 and Activities 11:00 – IYA in the UK – Ian Robson
11:20 – IYA-2009 Activities in Armenia – Areg Mickaelian
11:40 – Science Outreach in Benin (West Africa) for the IYA 2009 – Aude Alapini
12:00 – Society of Astronomers of Serbia, Astronomical Society "Rudjer Boskovic" and IYA 2009 – Andjelka Kovacevic
12:20 – Discussion

Parallel 2: 14.00–15.30

Multi-wavelength high redshift surveys

Location: N001

Obscured Star Formation - Radio Galaxies
14:00 – Obscured Star Formation Review (Review Talk) – Ian Smail
14:30 – The Far Infrared History of the Universe from the Balloon- Borne Large-Aperture Submillimeter Telescope: BLAST – Enzo Pascale
14:40 – The AzTEC mm-Wave Survey of the SHADES Fields – Angela Mortier
14:50 – The High-Redshift ($z_{\text{L}} > 4$) Tail of Submillimeter Galaxies – Kristen Coppin
15:00 – Investigating the Far-IR/Radio Correlation of Star Forming Galaxies to $z \approx 3$ – Nick Seymour
15:10 – Deep Multi-Frequency Radio Imaging in the Lockman Hole using the GMRT and VLA: The Nature of the sub-mJy Radio Population – Eduardo Ibar
15:20 – High Resolution CO and Radio Studies of High- z ULIRGs: Calibrating the $z \approx 2$ Star Formation Laws – Scott Chapman

UK Solar Physics Meeting – The unusual (?) solar minimum II; From the Sun to the Earth

Location: N002 (joint with MIST)

The unusual (?) solar minimum II
14:00 – The 3D heliosphere at the minimum of Solar Cycle 23 – Robert Forsyth
14:15 – Monitoring the first-light spectra from SphinX on Koronas-Photon during the present solar minimum – Kenneth Phillips
14:30 – The solar cycle, the mean global temperature and solar irradiance – Arnold Wolfendale
From the Sun to the Earth
14:45 – Simultaneous Interplanetary Scintillation and STEREO Heliospheric Imager observations of coronal mass ejections and stream interaction regions – Andy Breen
15:00 – Flux Rope Eruption From the Sun to the Earth: What do reversals in the azimuthal magnetic field gradient tell us about the evolution of the magnetic structure? – Kimberley Steed
15:15 – The apparent layered structure of the heliospheric current sheet: multi-spacecraft observations – Claire Foullon

The life cycle of dust

Location: N003

14:00 – Stardust in the Laboratory (Keynote) – Ernst Zinner
14:45 – Crystallization of Silicates in Stellar Winds – Ciska Kemper
15:00 – Looking Inside Presolar Silicon Carbide Grains – Torsten Henkel
15:10 – TOFSIMS Analysis of Gently Separated Presolar Graphite – Ashley King
15:20 – Investigating Presolar Silicate and Oxide Grains in Primitive Solar System Materials: A NanoSIMS Study – Jan Leitner

Star formation: from massive stars to brown dwarfs

Location: N101

High Mass - Low Mass
14:00 – Spectral Energy Distributions of Methanol Maser and 8GHz Continuum Sources in Regions of Massive Star Formation – Adam Avison
14:10 – What Are Class II Methanol Masers Tracing? – Mark Galloway
14:20 – Spectro- Astrometry of Herbig Ae/Be Binary Systems – Hugh Wheelwright
14:30 – Stellar Rotation at Young Ages: New Results from Corot's Monitoring of NGC 2264 – Fabio Favata
14:50 – The Low-Mass Initial Mass Function in the Young Cluster NGC 6611 – Joana Oliveira
15:10 – Is the IMF universal? Latest results from the UKIDSS Galactic Clusters – Nicolas Lodieu
15:20 – A Photoevaporating Proto-Brown Dwarf in Orion? – Philip Lucas

Binary stars – observation and theory

Location: N105

14:00 – The Impact of GAIA upon Studies of White Dwarf Binary Stars – Tom Marsh
14:20 – A Rare Outburst of the WZ Sge Type Star GW Lib – Kristina Byckling
14:30 – The Role of Binaries in the Early Galactic Halo – Takuma Suda
14:40 – The Galactic Population of Compact Binaries – Paul Groot
15:00 – RATS - a Search for Short Period Faint Variable Objects – Tom Barclay
15:10 – Discovery of the Jet Trail Nebula of Low Mass X-Ray Binary SAX J1712.6-3739 – Klass Wiersema
15:20 – HST Imaging and Ground-Based Spectroscopy of the Expanding Nebular Remnant of the 2006 Outburst of RS Ophiuchi – Valerio Ribeiro

MIST

Location: N002 (joint with UKSP)

The Galaxy and its satellites

Location: N106

14:00 – Spectroscopy of the Milky Way's Dwarf Satellites – Matthew Walker
14:15 – The Milky Way with SDSS: Mapping The Rosetta Stone of Galaxy Formation – Mario Juric
14:35 – Young stellar cluster in the Milky Way – Ben Davies
14:50 – The Galactic Population of White Dwarfs from Photometric Surveys – Daniel Mortlock
15:00 – SDSS, IPHAS and GALEX Photometry of Post-AGB Stars and Central Stars of Planetary Nebulae – Simon Weston
15:10 – Photometric Mapping of the Outer Galactic disk using IPHAS A Stars – Stuart Sale
15:20 – Disk-Halo Interaction in the Inner Milky Way: the Ophiuchus Superbubble and HI Clouds – Yuri Pido-pyhora

Three decades of gravitational lenses

Location: N110

Strong Lensing by Galaxies

14:00 – Strong Gravitational Lensing by Galaxies (Review Talk) – Leon Koopmans

14:30 – COSMOS 5921+0638: a New Strong Gravitational Lensing System – Timo Anttila

14:45 – Integral-Field Spectroscopy of SLACS Lenses – Oliver Czoske

15:00 – First Detection of Water in the Distant Universe – John McKean

15:15 – Gravitational Lensing: Surveys and Studies with New Instruments – Neal Jackson

Enabling technologies for space-based astronomy and space science

Location: N201

14:00 – A Practical X-Ray Interferometer – Gillian Butcher

14:20 – Solar Sailing as an Enabling Technology – Malcolm Macdonald

14:40 – OLFAR - Orbiting Low frequency Antennas for Radio Astronomy – Mark Bentum

15:00 – FIRST - A Space-Borne Low-Frequency Radio Observatory using Passive Formation Flying – Jan Bergman

The Virtual Observatory and distributed computing

Location: N205

14:00 – Improving Ease-of-Access to Virtual Observatories using Web Based Visualization Tools – Jonathan Fay

14:25 – Virtual Observatory Activities at ESO – Fernando Comerón

14:50 – Cambridge Astronomical Survey Unit: Providing Data Products for the VO – Eduardo Gonzalez-Solares

15:05 – Cloud Cosmology – Thomas Kitching

15:20 – VAMDC: Virtual Atomic and Molecular Data Centre – Nicholas Walton

The IYA 2009 in Europe

Location: N208

IYA 2009 and Education

14:00 – Galileo Teacher Training Programme – Rosa Doran

14:20 – A Global Citizen of the Skies – Daniel Brown

14:35 – The Impact of Archaeoastronomy on the Global Citizen – Tina Sherwood

14:50 – AIA 2009 in Romania - Education and Outreach – Magda Stavinschi

15:10 – IYA 2009 in Slovakia and European Project Aurora Polaris. – Drahomir Chochol

Parallel 3: 16.00–17.30

Multi-wavelength high redshift surveys

Location: N001

Radio Galaxies - Starbursts/AGN

16:00 – Testing the AGN-Starburst Connection with Deep Multi- Wavelength Surveys (Review Talk) – David Alexander

16:30 – Constraints on the Micro-Jy Radio Source Population from the VLA-CDFS Survey – Paolo Padovani

16:40 – Radio Observations of Complete Hard X-Ray AGN Samples – Fabio La Frasca

16:50 – Results from an Ultra-Deep Chandra Observation of the $z=3.09$ SSA22 – Bret Lehmer

17:00 – Ongoing Nuclear Activity and Star Formation in z_c 1 AGN in the CDFS – Fabrizio Fiore

17:10 – X-Ray Selected Type-2 QSOs: a Laboratory to Study Ongoing Star Formation and Black Hole Accretion

– Vincenzo Mainieri

17:20 – Results from the Deepest Ever Far-Infrared Survey of AGNs – James Mullaney

UK Solar Physics Meeting – Solar/STP Missions Forum

Location: N002 (joint with MIST)

STP space missions

16:00 – Cluster, THEMIS, MMS, Cross-Scale (inc. 10m questions/discussion) – Christopher Owen

Solar wind in situ and solar remote

16:20 – STEREO, Solar Orbiter (inc. 5m questions/discussion) – Richard Harrison

Solar Coronal Space Missions

16:35 – SOHO extended mission, Solar Probe Plus – Andrzej Fludra

16:45 – Hinode and Solar C (inc 5m questions/discussion) – Louise Harra

16:55 – RHESSI, Coronas-Photon/TESES and SphinX – Kenneth Phillips

17:00 – ILWS/SDO – Robert Walsh

Ground-based solar and STP

17:05 – ROSA, ATST, EST – Mihalios Mathioudakis, Sarah Matthews

17:10 – EISCAT – Stephen Crothers

17:15 – Questions and discussion on ground-based programmes

17:20 – General discussion on future priorities for Solar/STP missions and facilities

The life cycle of dust

Location: N003

16:00 – IR Spectroscopy of Dust: a View from the Laboratory Bench – Monica Grady

16:20 – Origin of Dust and Gas in the Local Group Galaxies – Mikako Matsuura

16:30 – Molecules and Dust in the Early Universe: the Supernova Connection – Isabelle Cherchneff

16:40 – Galaxy Zoo: Inclination Dependent Dust Attenuation in Visually Classified Spirals – Karen Masters

16:50 – The Dust Shell around SN2008S – Roger Wesson

17:00 – Dusty Discs around Evolved Stellar Objects – Claire Lykou

17:10 – Debris Discs Around the Oldest Stars in the Galaxy – Christopher Sheehan

17:20 – Dust from AGB Stars and its Survival in the ISM – Svitlana Zhukovska

Star formation: from massive stars to brown dwarfs

Location: N101

Low Mass - Models and Data

16:00 – Three New Methane Dwarfs in the Star Forming Region IC 348 – Andrew Burgess

16:10 – The Formation of Brown Dwarfs and Low-Mass Stars by Disc Fragmentation; Theory vs Observations – Dimitris Stamatellos

16:30 – Star Formation Triggered by Expanding HII Regions – Anthony Whitworth

16:40 – Constraining the Kinematics of Serpens North Cluster: Comparison between (Sub)Millimetre Observations and SPH Simulations – Ana Duarte Cabral

17:00 – The Structure of Molecular Clouds – Jonathan Rowles

17:10 – Are Pre-Main-Sequence Stars Older than we Thought? – Tim Naylor

Galaxy clusters and their evolution

Location: N105

16:00 – Evolution, Downsizing and Environment: Results from Faint Cluster Galaxies – Russell Smith

16:15 – LoCuSS: The Mid-Infrared Butcher-Oemler Effect – Chris Haines

16:30 – The Gas Properties of Cluster Starbursts – James Geach

16:45 – AGES: Deep HI Observations of the Virgo Cluster – Rhys Taylor

17:00 – The Effect of Ram Pressure on the Star Formation, Mass Distribution and Morphology of Galaxies – Wolfgang Kapferer

17:15 – Poster Adverts – Chris Collins, Oliver Hielscher, Avon Huxor, Diego Capozzi, Smriti Mahajan, Ali Dariush

MIST

Location: N002 (joint with UKSP)

Three decades of gravitational lenses

Location: N110

Strong and Weak Lensing

- 16:00 – Effects of Substructure on Gravitational Lensing: Results from Aquarius Simulations – Dandan Xu
- 16:15 – Luminous Satellite Galaxies in Gravitational Lenses – Sarah Bryan
- 16:30 – Weak Gravitational Lensing: Recent & Future Progress (Review Talk) – Andy Taylor
- 17:00 – A Halo Model for Intrinsic Alignments – Sarah Bridle
- 17:15 – LoCuSS: New Cluster Weak-Lensing Results from Subaru – Graham P. Smith

High Energy Non-thermal Astrophysics

Location: N201

- 16:00 – Particle Acceleration in Colliding Wind Binaries – Julian Pittard
- 16:20 – H.E.S.S. Observations of Massive Stellar Clusters – Stefan Ohm
- 16:40 – Multi-Wavelength Identification of High-Energy Sources – Roberto Mignani
- 17:05 – High-Energy Particle Acceleration at the Radio-Lobe Shock of Centaurus A – Judith Croston

The IYA 2009 in Europe

Location: N208

IYA General Activities

- 16:00 – Cutting It Fine: the Making of ‘The Starry Messenger’ – Robert Priddey
- 16:15 – Cosmos & Culture: Astronomy at the Science Museum – Alison Boyle
- 16:30 – The ALMA Planetarium Show – Henri Boffin
- 16:45 – The Scottish Solar System – Martin Hendry
- 17:00 – Engaging the Public with Astronomy at the Royal Observatory, Greenwich: IYA and beyond – Marek Kukula
- 17:15 – Discussion

Thursday

Plenary Programme: 9.00–10.30

Location: Weston Auditorium

Science Talks (Chair: Jim Hough, Director of CAR, UoH)

- 09:00 – Astronomy, physics and astrobiology with the Square Kilometre Array – Joseph Lazio, NRL Washington DC

09:30 – Highlights in ground-based gamma-ray astronomy – Werner Hofmann, Heidelberg

10:00 – Asteroeismology in the era of the CoRoT space mission – Conny Aerts, Leuven/Nijmegen

Parallel 1: 11.00–12.30

Multi-wavelength high redshift surveys

Location: N001

Future Surveys

- 11:00 – Outstanding Issues in Galaxy Formation (Review Talk) – Simon White
- 11:30 – VIDEO and SERVs: a Deep and Wide Near-Infrared View of the Universe – Matthew Jarvis
- 11:40 – The Herschel ATLAS and other Herschel Surveys – Stephen Eales
- 11:50 – The Herschel Multi-Tiered Extragalactic Survey (HerMES) – Seb Oliver
- 12:00 – Beyond Herschel on SAFARI - a FIR Imaging Spectrometer and Photometer for SPICA – Kate Isaak
- 12:10 – Predictions for Cosmological Surveys with Herschel Based on Galaxy Formation in CDM – Cedric Lacey
- 12:20 – Discussion

UK Solar Physics Meeting – Dynamics of Solar Magnetic Fields

Location: N002

- 11:00 – State of the Art Dynamo Simulations Incorporating Helioseismology and Surface Magnetic Data (Review Talk) – Petrus Martens
- 11:30 – Anatomy of a solar flare corona to the photosphere and beneath? – Sarah Matthews
- 11:45 – The role of nanoflares in coronal heating – Michael Bareford
- 12:00 – Modelling the Global Solar Corona: The origin of the hemispheric pattern of solar filaments – Duncan Mackay
- 12:15 – CME initiation by magnetic flux emergence – Stefaan Poedts

The life cycle of dust

Location: N003

- 11:00 – An Update on SCUBA-2 – Wayne Holland
- 11:15 – Studying large-Scale Galactic Star Formation using the Sub-mm – Toby Moore
- 11:30 – Observational Constraints on Interstellar Grain Alignment – B-G Andersson
- 11:40 – Cassiopeia A: Dust Factory Revealed via Submillimeter Polarimetry – Loretta Dunne
- 11:50 – The Role of Supernovae in the Interstellar Dust Budget – Haley Gomez
- 12:00 – Anomalous Radio Emissivity of Dust – Richard Davis
- 12:10 – Spitzer Analysis of the Perseus Cloud: Constraining the Anomalous Microwave Emission – Christopher Tibbs
- 12:20 – Dust Input from AGB Stars in Local Group Galaxies – Eric Lagadec

Star formation: from massive stars to brown dwarfs

Location: N101

Models and Data

11:00 – The Fragmentation of Expanding Shells – Jan Palous

11:20 – Using Molecular Complexity as Diagnostics of the Physical Characteristics of Low and High Mass Star Formation – Serena Viti

11:40 – Constraining Observables from Hydrodynamical Simulations of Prestellar Core Collapse – Stefanie Walch

12:00 – Non-LTE Molecular Line Imaging of SPH Cluster Simulations – David Rundle

12:10 – Discussion

Galaxy clusters and their evolution

Location: N105

11:00 – The Thermal History of the Intragroup Medium – Richard Bower

11:15 – JKCS 041, a $z=1.9$ Cluster Optically Detected with a well Developed Potential Well – Stefano Andreon

11:30 – Combining Semi-Analytic Models of Galaxy Formation with Simulations of Galaxy Clusters – Chris Short

11:45 – Hot Gas in Galaxy Clusters & Cool-Core/Non-Cool Core Bimodality – Alastair Sanderson

12:00 – The X-Ray Luminous Cluster Underlying the Bright Radio-Quiet Quasar H1821+643 – Helen Russell

12:15 – Poster Adverts – Ben Maughan, Gabriel Pratt, Ed Lloyd-Davies, James Falder, Habib Khosroshahi, Thomas Scott

MIST – Heliospheric and astrospheric structure and planetary interactions

Location: N106

11:00 – Opening remarks – Andy Breen, Mario Bisi, Helmut Lammer

11:02 – Using the heliosphere as an astrophysical laboratory – Mike Hapgood

11:32 – Stellar wind interaction with close-in extrasolar planets – Erik Johansson

11:51 – Solar wind interactions seen with the STEREO Heliospheric Imagers – Christopher Davis

12:10 – Evolution of large scale solar wind structures from the Sun to 1 AU from remote sensing and in-situ observations – Robert Forsyth

12:29 – Closing remarks – Andy Breen, Mario Bisi, Helmut Lammer

Three decades of gravitational lenses

Location: N110

Cluster Lensing

11:00 – Cluster Lensing (Review Talk) – Jean-Paul Kneib

11:30 – Weak Lensing Studies of Galaxy Clusters – Henk Hoekstra

11:45 – LoCuSS: Weak Lensing Analysis of 21 Galaxy Clusters at $z=0.15-0.3$ – Victoria Hamilton-Morris

12:00 – Weak Lensing Observation of Potentially X-ray Underluminous Galaxy Clusters – Jrg Dietrich

12:15 – Concluding Remarks

High Energy Non-thermal Astrophysics

Location: N201

11:00 – Cosmic Rays from Extragalactic Sources – Arnold Wolfendale

11:25 – Early Results from the Fermi-LAT Mission – Stefan Funk

11:50 – Extragalactic VHE Gamma-Ray Sources and the EBL – Daniel Mazin

12:10 – The Cherenkov Telescope Array – Sam Nolan

Asteroseismology in the era of the CoRoT and Kepler missions

Location: N205

11:00 – Effects of Rotation on Stellar Pulsation Frequencies – Kara Burke

11:20 – Diagnostics of the Structure of the CoRoT Solar-Like Stars HD49933 and HD 181420 – Ian Roxburgh

11:35 – Fitting the p-modes of Sun-Like CoRoT Stars – Graham Verner

11:55 – Narrow Windowed Autocorrelation as a Diagnostic of Solar-Type Oscillators – Ian Roxburgh

12:10 – New Oscillation Frequencies for 11 Beta Cephei Stars – Kym Goss

The IYA 2009 in Europe

Location: N208

IYA 2009 Activities

11:00 – Making Universe Awareness Happen – C. Ödman

11:25 – IYA 2009 Education and Science Communication Networks – Sotira Trifountki

11:45 – ESF Surveys for ‘She is an Astronomer’ – Helen Walker

12:05 – The Spanish Survey for ‘She is an Astronomer’ – Helen Walker

12:20 – Discussion

RAS Programme

Location: Weston Auditorium

14:00 Introduction and Welcome

14:15 Awards Ceremony

14:50 RAS Invited Lecture by George Ellis (University of Cape Town), the 2009 RAS Gerald Whitrow lecturer on “Evidence and Theory, Fact and Fancy: the state of Cosmology today”.

RAS Community Meeting

Location: Weston Auditorium

16:00 – Community Forum featuring a panel discussion chaired by the RAS President, Andy Fabian.

Invitations have gone out to STFC, ESA, ESO, and EAS, and in particular to Keith Mason, Mike Cruise (as Chair of AGP), David Southwood, Tim de Zeeuw, and Joachim Krautter.