

JENAM 2010

Joint European and National Astronomy Meeting

LISBON
PORTUGAL

Faculdade de Ciências
Universidade de Lisboa

SEP

6-10. 2010

THE EUROPEAN WEEK OF ASTRONOMY AND SPACE SCIENCE

Programme

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Welcome

JENAM is the Joint European and National Astronomy Meeting organised each year in one of the European countries jointly by the European Astronomical Society and one of the national astronomical societies. Since 2009, JENAM has become the European Week of Astronomy and Space Science (EWASS).

JENAM 2010/EWASS is taking place in Lisbon, Portugal during the week of September 6-10 2010. It will be the 18th Annual Meeting of the European Astronomical Society and the 20th Annual Portuguese Meeting of Astronomy and Astrophysics. We believe JENAM 2010/EWASS will be an exciting event, spanning front line topics in Astronomy and Space Sciences and technologies.

This booklet provides a global overview of the programme for JENAM 2010/EWASS. Further information can be consulted at the Conference website: <http://www.jenam2010.org>

Book of Abstracts: After talking to many colleagues, we found that there is a widespread feeling that a printed version of the Book of Abstracts is regarded as an environment unfriendly waste of paper. We have thus opted to make the Book of Abstracts available in PDF only. It can be downloaded from the conference site.

Internet Access: Wireless internet access can be a frustrating experience in conferences. We are doing our best to provide the best service we can. For that, we have hired a service which we hope will provide a painless wireless connection plus a room with several terminals. However, since the meeting is at the University of Lisbon, the wireless EDUROAM service is also available and has proved to be able to support the load of several hundred machines (something the hired service is not). We therefore encourage all participants coming from European Universities, which in general have the EDUROAM service, to setup your local EDUROAM accounts and use them at JENAM 2010.

We wish you all a fruitful meeting and a great time in Lisbon!

On behalf of the LOC,

André Moitinho

Organizing Committees

Scientific Organizing Committee - SOC

André Moitinho (Chair; SIM/U. Lisbon, Portugal)
Jan Palous (Co-chair; Astronomical Institute, Czech Republic)
Joao Alves (U. Vienna, Austria)
Johannes Andersen (U. Copenhagen, Denmark; NOT, Spain)
Miguel Aviliez (U. Evora, Portugal)
Orfeu Bertolami (IST, Portugal)
Dieter Breitschwerdt (TUB, Germany)
Mark Casali (ESO)
Pierre Cox (IRAM, France)
Ann Dutrey (LAB, France)
João Fernandes (U. Coimbra, Portugal)
Pedro G. Ferreira (U. Oxford, UK)
Isabel Marquez (IAA-CSIC, Spain)
Ernesto Oliva (INAF-Arcetri, Italy)
António Pedrosa (CME, Portugal)
Timo Prusti (ESA)
Nuno Santos (CAUP, Portugal)

Local Organizing Committee - LOC

André Moitinho (Chair; SIM/U. Lisboa)
Eduardo Amôres (SIM/U. Lisboa)
António Amorim (SIM/U. Lisboa)
Sónia Antón (CICGE/U. Porto)
Vladan Arsenijevic (SIM/U. Lisboa)
Joana Ascenso (CAUP)
Rui Azevedo (CAUP)
Elias Brinks (U. Hertfordshire, UK)
Jorge Lima (SIM/U. Lisboa)

LOC Contact

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Scientific Program - Overview and Plenary Sessions

Sunday, September 5

18:00-20:00 Registration and welcome cocktail at the “Museu da Cidade”

Monday, September 6

08:30-09:00 Registration

Plenary Session 1

09:00 - 09:30 **Welcome and Opening Ceremony**

André Moitinho (JENAM LOC, SOC Chair)

José Rebordão (Pres. FCUL)

Joachim Krautter (Pres. EAS)

João Sentieiro (National Science Funding Agency)

09:30 - 10:30 **Lodewijk Woltjer** “The changing face of Astronomy” (Inaugural Lodewijk Woltjer Lecture)

10:30 -11:00 **Geraldine Servant (CERN)** “The particle accelerator / astrophysics connection”

11:00-11:30 Coffee break, Posters & Job Market

11:30-13:00 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS1: Astronomy Challenges for Engineers & Computer Scientists

13:00 - 14:30 Lunch

14:30-16:00 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS1: Astronomy Challenges for Engineers & Computer Scientists

16:00-16:30 Coffee break, Posters & Job Market

16:30-18:30 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS1: Astronomy Challenges for Engineers & Computer Scientists

Tuesday, September 7

08:30 - 09:00 Registration

09:00-10:30 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS7: Education and Outreach after IYA2009 in Europe

SPS9: The 30 years of IRAM

11:00-11:30 Coffee break, Posters & Job Market

Plenary Session 2

11:00-11:10 **Teresa Lago (U. Porto)** Introduction by session Chair

11:10-12:10 **Bruno Leibundgut (ESO)** “Recent developments at ESO”

12:10-12:40 **Magda Arnaboldi (ESO)** “Imaging Surveys at ESO”

12:40-13:00 Highlight talk by young outstanding researcher - **Enric Pallé (IAC)** “The Earth as a distant planet”

13:00-14:30 - Lunch

13:00-14:30 - She’s an Astronomer Lunch and talk by **Eva Juette** (Astronomisches Institut Ruhr-Universitaet Bochum, Germany): “Mentoring at the Ruhr-University Bochum - equal opportunities for female scientists”

14:30-16:00 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS3: ESO: ALMA Early Science - opportunities and tutorials

SPS7: Education and Outreach after IYA2009 in Europe

16:00-16:30 Coffee break, Posters & Job Market

16:30-18:30 **Parallel Sessions**

S1: From Varying Couplings to Fundamental Physics

S2: Environment and the Formation of Galaxies: 30 years later

S4: From Macro to Micro Stellar Transits

SPS3: ESO: ALMA Early Science - opportunities and tutorials

SPS7: Education and Outreach after IYA2009 in Europe

18:30-19:30 **Public talk - João Magueijo** “A anarquia e as leis da fisica”

Wednesday, September 8

08:30 - 09:00 Registration

09:00-10:30 **Parallel Sessions**

S6: Science Cases for Optical and Infrared Interferometry - Present and Future

SPS2: Radio-Astronomy in Iberia

SPS5: Astronomy Planning in Europe - Towards an Even Stronger European Astronomy

SPS6: New Trends in Global Astronomy Education

SPS10: CERN: The particle accelerator/astrophysics connection

10:30-11:00 Coffee break, Posters & Job Market

11:00-12:30 Parallel Sessions

S6: Science Cases for Optical and Infrared Interferometry - Present and Future

SPS2: Radio-Astronomy in Iberia

SPS5: Astronomy Planning in Europe - Towards an Even Stronger European Astronomy

SPS6: New Trends in Global Astronomy Education

SPS10: CERN: The particle accelerator/astrophysics connection

12:30-14:30 - Lunch

Plenary Session 3

14:30-16:00 - EAS General Assembly

16:00-18:30 - Port. Astron. Soc. General Assembly

Thursday, September 9

08:30 - 09:00 Registration

09:00-10:30 Parallel Sessions

S3: Dwarf Galaxies

S5: Star Clusters in the Era of Large Surveys

S6: Science Cases for Optical and IR Interferometry

S7: The Square Kilometre Array

11:00-11:30 Coffee break, Posters & Job Market

Plenary Session 2

11:00-11:10 **Mário Amaral (FCT)** - Introduction by session Chair

11:10-11:40 **Jean Clavel (ESA)** “The Scientific Programme of ESA & its future: The Cosmic Vision 2015-2025 Long Term Plan”

11:40-12:10 **Göran Pilbratt (ESA)** “The ESA Herschel Space Observatory - first year in-flight and early science highlights”

12:10-12:40 **Rita Schulz (ESA)** “The Rosetta close encounters with two main-belt asteroids”

12:40-13:00 **Catherine Heymans (ROE)** - Highlight talk by young outstanding researcher - “Charting the Dark Universe”

13:00-14:30 - Lunch

14:30-16:00 Parallel Sessions

S3: Dwarf Galaxies

S5: Star Clusters in the Era of Large Surveys

S6: Science Cases for Optical and IR Interferometry

S7: The Square Kilometre Array

SPS4: ESA: Elements of the science programme for JENAM2010

16:00-16:30 Coffee break, Posters & Job Market

16:30-18:30 **Parallel Sessions**

S3: Dwarf Galaxies

S5: Star Clusters in the Era of Large Surveys

S6: Science Cases for Optical and IR Interferometry

S7: The Square Kilometre Array

SPS4: ESA: Elements of the science programme for JENAM2010

Friday, September 10

08:30 - 09:00 Registration

09:00-10:30 **Parallel Sessions**

S3: Dwarf Galaxies

S5: Star Clusters in the Era of Large Surveys

S6: Science Cases for Optical and IR Interferometry

S7: The Square Kilometre Array

SPS8: Amateur and professional astronomers in Europe: how pro-am cooperation is changing astronomy

11:00-11:30 Coffee break, Posters & Job Market

Plenary Session 2

11:00-11:05 **Joachim Krautter** - Introduction by session Chair

11:05-12:00 **Raymond Wilson - Tycho Brahe Prize award** "From the ESO NTT to the VLT and the 42m ELT: the development of Active Optics as the basis of all modern telescope optics"

12:40-12:40 **Richard Schilizzi (SKA)**

12:40-12:50 **André Moitinho** "Final comments"

12:40-14:30 - Lunch

14:30-16:00 **Parallel Sessions**

S3: Dwarf Galaxies

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SPS8: Amateur and professional astronomers in Europe: how pro-am cooperation is changing astronomy

16:00-16:30 Coffee break, Posters & Job Market

16:30-18:30 **Parallel Sessions**

S3: Dwarf Galaxies

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S6: Science Cases for Optical and IR Interferometry

S7: The Square Kilometre Array

SPS8: Amateur and professional astronomers in Europe: how pro-am cooperation is changing astronomy

19:00-20:00 **Public talk - Paulo Freire** "Pulsares - os Relógios do Cosmos"

S1: From Varying Couplings to Fundamental Physics

Session 1: Monday, September 6

11:30-12:00 **Carlos Martins (CAUP)** : Astrophysical Probes of Fundamental Physics

12:00-12:15 **Nelson Nunes (Heidelberg)** : Probing Dark Energy with Varying Fundamental Parameters

12:15-12:45 **João Magueijo (Imperial)** : Varying Speed of Light and Cosmic Structure

12:45-13:00 **Lucila Kraiselburd (La Plata)** : Beyond Bekenstein's Theory

Session 2: Monday, September 6

14:30-15:00 **Victor Flambaum (UNSW)** : Varying Fundamental Constants from Big Bang to Atomic Clocks

15:00-15:30 **Ekkehard Peik (PTB)** : Experiments with Optical Clocks Based on Trapped Ions

15:30-16:00 **Sébastien Bize (Paris)** : Testing the Stability of Fundamental Constants Using the LNE-SYRTE Clock Ensemble

Session 3: Monday, September 6

16:30-17:00 **Enrique Garcia-Berro (Barcelona)** : White Dwarf Constraints on Varying Constants

17:00-17:30 **Silvia Galli (APC)** : Constraining the variation of fundamental couplings with the cosmic microwave background

17:30-17:45 **José Pedro Mimoso (Lisbon)** : The Variation of G in a Negatively Curved Space-time

17:45-18:00 **Marco Zagermann (Hannover)** : String Theory, Dark Energy and Varying Couplings

Session 4: Tuesday, September 7

09:00-09:45 **John Webb (UNSW)** : New Analysis of a Large Sample of VLT Quasar Spectra for Varying Fine-structure Constant

09:45-10:00 **Carlos Gutierrez (IAC)** : The Value of the Fine-structure Constant over Cosmological Times

10:00-10:30 **Rodger Thompson (Steward Obs.)** : Current State of Mu Measurements Versus Cosmic Time

Session 5: Tuesday, September 7

14:30-15:00 **Wim Ubachs (Amsterdam)** : On the Variation of the Proton-to-electron Mass Ratio

15:00-15:15 **Martin Wendt (Hamburg)** : Robust Limit on a Varying Proton-to-electron Mass Ratio from a Single H₂ System

15:15-15:30 **Mikhail Kozlov (Petersburg Inst.)** : Sensitivity of Molecular Microwave Spectra to Varying Fundamental Constants

15:30-16:00 **Sergey Levshakov (Ioffe Inst.)** : Searching for Chameleon-like Scalar Fields

Session 6: Tuesday, September 7

16:30-17:00 **Patrick Petitjean (IAP)** : Detection of 21cm, H₂ and D Absorption at $z > 3$ Along the Line of Sight of J1337+3152

17:00-17:15 **Sperello Di Serego Alighieri (Arcetri)** : Cosmological Birefringence

17:15-17:45 **Paolo Molaro (Trieste)** : Future Facilities for Probing Fundamental Constants

17:45-18:00 **Carlos Martins (CAUP)** : Closing Remarks

S2: Environment and the Formation of Galaxies: 30 years later

Session 1: Monday, September 6

- 11:30-12:10 **Alan Dressler** : “Galaxies and their environments - past, present, and future”
12:10-12:30 **Rien van de Weygaert** : “The Void Galaxy Survey”
12:30-13:00 **Simone Weinmann** : “The dependence of galaxy properties on environment at low redshift”

Session 2: Monday, September 6

- 14:30-14:50 **Amata Mercurio** : “ACCESS: NIR luminosity function and stellar mass function of galaxies in the Shapley supercluster environment”
14:50-15:10 **Eric Wilcots** : “The Symbiotic Relationship Between the Environment and Evolution of Galaxies in Groups”
15:10-15:30 **Kelley Hess** : “Galaxy Groups in the Coma-A1367 Supercluster”
15:30-15:50 **Paolo Serra** : “Neutral hydrogen in early-type galaxies: the importance of environment”
15:50-16:10 **Francesco La Barbera** : “The optical+NIR (grizYJHK) Fundamental Plane of Early-type Galaxies: Dependence on local and global environment”

Session 3: Monday, September 6

- 16:30-16:50 **Daniel Thomas** : “Environment and self-regulation in galaxy formation”
16:50-17:10 **Ignacio Ferreras** : “Does environment affect the star formation histories of elliptical galaxies?”
17:10-17:30 **Boris Haeussler** : “Are boxy/disky Ellipticals dependent on environment?”
17:30-17:50 **Sheona Urquhart** : “An environmental Butcher-Oemler effect in intermediate redshift X-ray clusters”
17:50-18:10 **Gary Mamon** : “The line-of-sight velocity modulation of star formation diagnostics in and near galaxy clusters: observations and theory”

Session 4: Tuesday, September 7

- 9:00-9:30 **Alfonso Aragon Salamanca** : “Galaxy evolution in clusters since $z \sim 1$ ”
9:30-9:50 **Olga Cucciati** : “The role of galaxy stellar mass in the colour-density relation up to $z \sim 1$ ”
9:50-10:10 **David Sobral** : “From poor fields to rich clusters: the detailed role of the environment on galaxy formation and evolution at $z \sim 1$ ”
10:10-10:30 **Ruth Grutzbauch** : “Galaxy properties in different environments at high redshift”

in the GOODS NICMOS Survey”

Session 5: Tuesday, September 7

14:30-15:00 **Gabriella De Lucia** “Modelling the evolution of galaxies as a function of environment”:

15:00-15:20 **David Wilman** : “The origin of the morphology-density relation”

15:20-15:40 **Ewa Lokas** : “The grouping, merging and tidal stirring of dwarf galaxies in the Local Group”

15:40-16:10 **Jeffrey Kenney** : “Ram Pressure Stripping and Gravitational Interactions in Groups and Clusters”

Session 6: Tuesday, September 7

16:30-16:50 **Gerhard Hensler** : “Ram-pressure-stripped galaxies - Which are their survivors?”

16:50-17:20 **Sadegh Khochfar** : “Gravity at work: How high density environments regulate galaxy properties”

17:20-18:20 **Frank van den Bosch** : Discussion

S3: Dwarf Galaxies: Keys to Galaxy Formation and Evolution

Session 1: Thursday, September 9

09:00-09:05 **Welcome note and general information:**

09:05-09:45 **E. Skillman** : Outstanding Questions in Dwarf Galaxy Research

09:45-10:05 **C. Gallart** : Constraints on the effects of reionization in the star formation history of dwarf galaxies: conclusions from the LCID project

10:05-10:30 **J. Lee** : Measuring Star Formation Rates in Dwarf Galaxies

Session 2: Thursday, September 9

14:30-15:10 **N. Bergvall** : Star-Forming Dwarf Galaxies

15:10-15:35 **J. Iglesias-Paramo** : Properties of H α emitting dwarf galaxies in nearby clusters

15:35-15:55 **G. Hensler** : Morphological mutations of dwarf galaxies

Session 3: Thursday, September 9

16:30-16:50 **J. Kenney** : Transformation of a Virgo Dwarf Irregular Galaxy by Ram Pressure Stripping

16:50-17:30 **H. Jerjen** : Dwarf Elliptical Galaxies: United and Divided

17:30-17:50 **A. Rys** : A SAURON study of dEs in the Virgo Cluster: stellar populations and kinematics

17:50-18:15 **S. Salvadori** : Stellar Archeology: a cosmological view of dwarf galaxies

18:15-19:00 **Poster Session (to be confirmed):**

Session 4: Friday, September 10

09:00-09:40 **U. Klein** : The ISM of Dwarf Galaxies

09:40-10:05 **P.-A. Duc** : Tidal Dwarf Galaxies: from simulations to observations and vice versa

10:05-10:30 **P. Weilbacher** : 3D Spectroscopic Observations of Dwarf Galaxies

Session 5: Friday, September 10

14:30-14:50 **E. Brinks** : LITTLE THINGS: an HI survey of Nearby Dwarf Irregulars

14:50-15:10 **K. Pilkington** : Cold Gas Content of Dwarf Galaxy Simulations

15:10-15:30 **G. Mamon** : Predicting the frequency of young and of tiny galaxies

15:30-15:50 **D. Forbes** : The Dwarf galaxy - Ultra Compact Dwarf connection

15:50-16:10 **T. Goerdt** : The formation of ultra-compact dwarf galaxies and nucleated dwarf galaxies

Session 6: Friday, September 10

16:30-16:50 **E.M. Wilcots** : Feedback in Dwarf Galaxies

16:50-17:10 **G. Östlin** : Ly α emission and Super-Star Clusters in dwarf galaxies

17:10-17:30 **R. Amorin** : Unveiling the nature of the “green pea” galaxies

17:30-17:50 **G. Tenorio-Tagle** : Positive star formation feedback in super stellar clusters and in dwarf galaxies

17:50-18:30 **Summary and Discussion:**

S4: From Macro to Micro Stellar Transit

Session 1: Monday, September 6

11:30-12:20 **Alvaro Giménez** : From Eclipsing Binaries to Planetary Transits

12:20-13:00 **Antonio Claret** : Limb-darkening effects in planetary transits

Session 2: Monday, September 6

15:30-16:10 **Enric Pallé** : Lunar eclipses

Session 3: Monday, September 6

16:30-17:10 **Roi Alonso** : CoRoT

17:10-17:30 **Giuseppe Leto** : Magnetic Activity of CoRoT-6 and CoRoT-7

17:10-17:50 **Hannu Parvianen** : CoRoT-7

Session 4: Tuesday, September 7

09:30-10:10 **Natalie Batalha** : Kepler

10:10-10:30 **Carlos Del Burgo** : Time Series Observations

Session 5: Tuesday, September 7

15:30-16:00 **Jaynie Birkby** : WFCAM Transit Survey

16:00-16:40 **Isabella Pagano** : PLATO

16:40-17:00 **Nadia Kostogrya** : Polarization in HD189733

17:00-17:20 **Eduardo Martín** : Summary

S5: Star Clusters in the Era of Large Surveys

Session 1: Thursday, September 9 - Overview of recent, on-going and planned surveys. Cluster Searches

09:00-09:05 **A. Moitinho** : Opening

09:05-09:25 **J. Drew** : “Optical digital galactic plane surveys and cluster science”

09:25-09:45 **V. Ivanov** : “Census of Milky Way Star Clusters from Infrared Surveys”

09:45-10:00 **P. Frinchaboy** : “SDSS-III/APOGEE: Detailed Abundances of Galactic Star Clusters”

10:00-10:15 **S. Hodgkin** : - “Towards uniformity in the photometric calibration of near infrared surveys”

10:15-10:30 **E. Glushkova** : “Properties of Star Clusters Found and Investigated by Data from Large Surveys”

10:30-10:40 **A. Moitinho** : Poster presentation by Session Chair

Session 2: Thursday, September 9 - Star formation & evolution - I

14:30-14:45 **E. Moraux** : “Large-scale optical surveys of open clusters”

14:45-15:00 **C. Alves de Oliveira** : “Probing the low-mass end of the IMF in star-forming regions”

15:00-15:15 **N. Moeckel** : “Dynamics in the embedded phase: accretion, collisions, contraction”

15:15-15:30 **A. Duarte Cabral** : “Examining the properties and dynamics of young protoclusters: striving to unravel the initial conditions and triggers of star formation”

15:30-15:40 **Poster presentation by Session Chair:**

15:40-16:00 **Discussion (20 min):**

Session 3: Thursday, September 9 - Star formation & evolution - II

16:30-16:45 **E. Bressert** : “Do All Stars in the Solar Neighbourhood Form in Dense Clusters?”

16:45-17:00 **S. Goodwin** : “New measures for measuring structure in star clusters”

17:00-17:15 **G. Wuchterl** : “The impact of formation on cluster chronology”

17:15-17:30 **J. Stauffer** : “Uncertainties in the Age Scale for Young Open Clusters and Moving Groups”

17:30-17:45 **R. Jeffries** : “Ages and age spreads in young clusters”

17:45-17:55 **Poster presentation by Session Chair:**

17:55-18:30 - **Discussion (35 min):**

Session 4: Friday, September 10 - Star formation & evolution - III

09:00-9:15 **G. Micela** : “The relevance of X-ray surveys for the study of the properties of young

open clusters”

09:15-9:30 **N. Wright** : “Chandra observations of the massive young cluster Cygnus OB2”

09:30-9:45 **M. Messineo** : “Young massive stellar clusters in the Milky Way: Quartet, GLIMPSE9 and Cl1813-178 clusters”

09:45-10:00 **P. Ventura** : “Possible scenarios for the formation of multiple populations in Globular Clusters”

10:00-10:10 **Poster presentation by Session Chair:**

10:10-10:30 **Discussion (20 min):**

Session 5: Friday, September 10 - The Milky Way and beyond

14:30-14:50 **S. Randich** : “Chemical properties of the open cluster population”

14:50-15:10 **D. Martínez-Delgado** : Stellar Tidal Streams in the Milky Way: evidence for merger events in the Galactic disk?

15:10-15:30 **L. Eyer** : “Time resolved surveys of stellar clusters”

15:30-15:40 **Poster presentation by Session Chair:**

15:40-16:00 **Discussion (20 min):**

Session 6: Friday, September 10 - Technical challenges

16:30-16:45 **M. Netopil** : “Developments of the open cluster database WEBDA”

16:45-17:00 **C. Bailer-Jones** : “Bayesian inference of stellar parameters and interstellar extinction using parallaxes and multiband photometry”

17:00-17:15 **E. Bertin** : “AstrOmatic software in the era of large stellar photometric surveys”

17:15-17:30 **T. Naylor** : “Cluster parameter determinations for large datasets”

17:30-17:45 **I. Zolotukhin** : “Open Clusters Science in the Virtual Observatory era”

17:45-17:55 **Poster presentation by Session Chair:**

17:55-18:30 **H. Zinnecker** : Session and Final Discussion (35 min)

S6: Science Cases for Optical and Infrared Interferometry - Present and Future

Session 1: Wednesday, September 8 - Optical Interferometry - Status and Perspectives for the Next Decade

09:00-09:30 **A. Glindemann** : Perspectives of Interferometry from the Ground

09:30-10:00 **P.R. Lawson** : Perspectives of Space Interferometry

10:00-10:15 **D. Buscher** : What kinds of interferometric science will be feasible from the ground?

10:15-10:30 **F. Malbet, P. García** : The case of imaging at the VLTI and the need to combine up to 6 to 8 telescopes (Malbet / Garcia)

Session 2: Wednesday, September 8 - Planetary Systems

11:00-11:30 **V. Coude du Foresto** : Interferometric Detection of Planets

11:30-12:00 **S. Wolf** : Planet Formation with Interferometry

12:00-12:15 **F. Malbet** : Imaging protoplanetary disks around young stars: the first image of the inner disk obtained with VLTI/AMBER on MWC275

12:15-12:30 **E. Pedretti** : Sub-milliarcsecond imaging of stellar sources at the CHARA array

Session 3: Thursday, September 9 - Stars and Circumstellar Matter

09:00-09:30 **T. ten Brummelaar** : Fundamental Parameters of Stars

09:30-10:00 **O. Chesneau** : Circumstellar Matter

10:00-10:15 **R.D. Oudmaijer** : Interferometric observations and modeling of Massive Young Stellar Objects

10:15-10:30 **K. Ohnaka** : High-resolution 1-D imaging of the atmosphere of the red Supergiant Betelgeuse in the 2.3 micron CO lines with VLTI/AMBER

Session 4: Thursday, September 9 - The Galactic Center and Extragalactic Astronomy

14:30-15:00 **S. Gillessen** : The Center of our Galaxy

15:00-15:30 **W. Jaffe** : Extragalactic Astronomy

15:30-15:45 **L. Burtscher** : Resolving the nuclear dust structure in nearby AGNs

15:45-16:00 **D. Mourard** : Stellar physics at very high angular and spectral resolution: from VEGA/CHARA to future large optical arrays

Session 5: Thursday, September 9 - Future Directions and Recommendations

16:30-18:00 **V. Coude du Foresto, C.A. Hummel, G. Perrin, J. Surdej, A. Quirrenbach,**

T. ten Brummelaar : Round table discussion

S7: The Square Kilometre Array: Paving the way for the new 21st century radio astronomy paradigm

Session 1: Thursday, September 9

09h00-09h30 **Dave DeBoer (CASS/CSIRO, Australia)** : The SKA challenge

09h30-10h00 **Tom Osterloo (ASTRON, NL)** : Science from the Pathfinders

10h00-10h30 **Simon Garrington (JBCfA, UK)** : Societal Impacts of SKA

Session 2: Thursday, September 9

14h30-15h00 **Arnold van Ardenne (ASTRON, NL)** : The SKA new Instrumentation - Aperture Arrays

15h00-15h30 **Giovanni Bignami (U Milan, Italy)** : High energy astrophysics: the view at SKA

15h30-16h00 **Heino Falcke (U Nijmegen, NL)** : SKA, Auger and fast time RadioAstronomy

Session 3: Thursday, September 9

16h30-17h00 **Rashid Sunyaev (MPA, Germany and IKI, Russia)** : The Early Universe

17h00-17h30 **Steve Rawlings (Oxford U, UK)** : The Square Kilometre Array: Tracing the Universe from the EoR to the Present

17h30-18h00 **Paolo Padovani (ESO)** : AGN, Star Formation, and the nanoJy Sky

18h00-18h30 **Raffaella Morganti (ASTRON, NL)** : Using HI to trace outflows from galaxies and feeding of AGN

Session 4: Friday, September 10

09h00-09h30 **Erwin de Blok (U Cape Town, South Africa)** : SKA, Precursors and Galaxy Dynamics

09h30-10h00 **Joe Lazio (JPL-SPDO, USA)** : Transient Phenomena: Opportunities for New Discoveries

10h00-10h30 **Marijke Haverkorn (ASTRON, NL)** : Cosmic Magnetism: current status and outlook to the SKA

Session 5: Friday, September 10

14h30-15h00 **Andrei Lobanov (MPIfR, Germany)** : The SKA and High Resolution

15h00-15h30 **Leonid Gurvits (JIVE)** : SKA in the context of space science and planetary exploration

15h30-16h00 **Yuri Kovalev (ASC, Russia)** : Quasars and AGN

Session 6: Friday, September 10

16h30-17h00 **Patrick Charlot (Lab. For Astrophysics Bordeaux, France)** : Precision Astrometry - from GAIA to SKA

17h00-17h30 **Markus Kissler-Patig (ESO)** : the ELT vision (TBC): synergies with the SKA (TBC)

17h30-18h00 **Alexandre Refregier (CEA, France)** : Dark energy and Dark matter: the Euclid's look at SKA (TBC)

18h00-18h30 **Paulo Freire (MPIfR, Germany)** : Fundamental Physics with Pulsars

SPS1: Astronomy Challenges for Engineers & Computer Scientists

Session 1: Monday, September 6 - “Overview of Astronomy made in Europe”

11:30-11:40 **Teresa Lago** : Opening

11:40-12:10 **Bruno Leibundgut (Director for Science, ESO)** : The Science

12:10-12:40 **Andreas Kaufer (Director of La Silla Paranal Observatory, ESO)** : The Infrastructures

12:40-13:00 **Discussion:**

Session 2: Monday, September 6 - “The main projects of the decade”

14:00-14:30 **Roberto Tamai (Director of Technology Division, ESO)** : Technology in Astronomy VLT/VLTI as showcase

14:30-15:00 **Xavier Barcons (ALMA Board)** : ALMA

15:00-15:30 **Roberto Gilmozzi (Director of Telescope Division, ESO)** : E-ELT

15:30-16:00 **Colin Cunningham (Director of UKELT Programme)** : New Technologies for Astronomical Instrumentation

16:00-16:30 **Michèle Péron (Director of Engineering & Software Development, ESO)** : Control Software & Data Reduction and Analysis -

Session 3: Monday, September 6 - Round Table & General Discussion

17:00-17:45 **Colin Cunningham, Michel Dennefeld, Roland Gredel, Teresa Lago** : Round Table & General Discussion

17:45 **Closing:**

SPS2: Radio-Astronomy in Ibéria

Sessions 1 & 2 : Wednesday, September 8 - 09:00-12:30

Domingos Barbosa : R&D for radioastronomy : the IT connection

Dalmiro Maia : Instrumentation and Radio Astronomy at CIGGE - U. Porto (TBC)

Francisco Colomer : An Atlantic Network of Geodynamical Fundamental Stations (Project RAEGE)

Jose Antonio Lopez Fernandez : Instrumentation developments at the IGN (Spain)

Lourdes Montenegro : Radioastronomy at the Instituto de Astrofisica de Andalucia (IAA-CSIC)

SPS3: ESO Special Session: ALMA Early Science - opportunities and tutorials

Session 1: Tuesday, September 7

14:30-15:00 **W. Wild** : ALMA Status

15:00-15:20 **J. Afonso** : ALMA Science

15:20-15:40 **P. Klaassen** : CASA tutorial

15:40-16:00 **Q&A session: Is my science doable with ALMA? (prepared questions from audience):**

Session 2: Tuesday, September 7

16:30-16:50 **L. Testi** : ALMA Early Science

16:50-17:10 **M. Zwaan** : ALMA support for European users (the ARC)

17:10-17:30 **E. van Kampen** : Observing Tool tutorial

17:30-18:30 **Q&A session: Is this a sensible program for ES? Which tools would I need? Are they available?:**

SPS4: ESA Special Session: Elements of the science programme for JENAM2010

Session 1: Thursday, September 9

14:30-15:00 **René Laureijs** : “Euclid: an ESA mission to map the geometry of the Dark Universe”

15:00-15:30 **Malcolm Fridlund** : “PLATO: Europe’s Next-Generation Planet Finder”

15:30-16:00 **Kate Isaak** : “SPICA: The Space Infrared Telescope for Cosmology and Astrophysics”

Session 1: Thursday, September 9

16:30-17:00 **Pedro Osuna** : “ESA Science Archives at the European Space Astronomy Centre”

17:00-17:30 **Nora Loiseau** : “How to make the best use of more than 10 years of data: The XMM-Newton Science Archive”

17:30-18:00 **Eva Verdugo, Bruno Merin, Deborah Baines** : “The Herschel Science Archive”

18:00-18:30 **Deborah Baines** : “Science Using the Virtual Observatory: Probing the disks, accretion and formation of pre-main sequence stars”

SPS5: Astronomy Planning in Europe - Towards an Even Stronger European Astronomy

Session 1: Wednesday, September 8

- 09:00-09:10 **J. Andersen** : Welcome and introduction
- 09:10-09:30 **J.-M. Hameury** : Status of ASTRONET activities
- 09:30-09:50 **S. Katsanevas** : ASPERA: Plans for astroparticle physics
- 09:50-10:00 **C. Vogt** : Activities and plans of RadioNet
- 10:00-10:10 **J.K. Davies** : Coordinating activities by OPTICON
- 10:10-10:30 **J. Drew** : The review of European 2-4m telescopes

Session 2: Wednesday, September 8

- 11:00-11:05 **J. Andersen** : Wide-field spectroscopic surveys (summary)
- 11:05-11:20 **M. Balcells** : Role of the ING in implementing the ETSRC report
- 11:20-11:40 **M. Steinmetz** : Initiatives in astronomical software
- 11:40-12:00 **J. Tennyson** : Initiatives in laboratory astrophysics
- 12:00-12:30 **Discussion of near-term actions:**

SPS6: New Trends in Global Astronomy Education

Session 1: Wednesday, September 8

- 09:00-09:15 **Welcome:**
09:15-09:30 **Rosa Doran** : The GTTP - Now the future starts
09:30-09:45 **Roger Ferlet** : EUHOU
09:45-10:00 **Constance Walker** : New Trends in Using Globe at Night data
10:00-10:15 **Daniel Brown** : Peak into the Past - na Arechaeo Astronomy Summer School
10:15-10:30 **Jose Espinosa** : Early Science Education in Primary Schools

Session 2: Wednesday, September 8

- 11:00-11:15 **Natasa Stanic** : Art and Science Performance for all generation
11:15-11:30 **Nino Kochiashvili** : Astronomical Education in Georgia
11:30-11:45 **Areg Mickelian** : Astronomy for Students DVD
11:45-12:00 **Thilina Heenatigala** : Astro Book Drive - Sharing Materials to improve Astronomy Education
12:00-12:15 **Victor Gudiel** : HOU Spain - Recent Developments
12:15-12:30 **Lucilia Santos** : Teachers formation and practical activities in Astronomy for 1^o CEB

SPS7: Education and Outreach after IYA2009 in Europe

Session 1: Tuesday, September 7

09:00-09:15 **Pedro Russo** : Beyond IYA2009

09:15-09:30 **Kimberly Kowal Arcand** : Sustainability Beyond the International Year of Astronomy 2009: Redcycling FETTU

09:30-09:45 **Constance E. Walker** : Dark Skies Awareness Beyond IYA2009

09:45-10:00 **Lars Lindberg Christensen** : Portal to the Universe and ESO (beyond) IYA2009 Activities

10:00-10:15 **Isabel Marquez Perez** : She is as astronomer in Spain

10:15-10:30 **Ana Noronha** : Ciência Viva and IYA2009

Session 2: Tuesday, September 7

14:30-14:45 **João Fernandes** : IYA2009 in Portugal: highlights, lessons learned and legacy

14:45-15:00 **Ian Robson** : The legacy of IYA2009 in the UK

15:00-15:15 **Magda Stavinschi** : IYA2009 and beyond - the largest public event ever happened in Romania

15:15-15:30 **Montse Villar Martín** : IYA2009 in Spain: Evaluation and future plans

15:30-15:45 **Lina Canas** : ReachOut: beyond the planetarium

15:45-16:00 **Eleni Chatzichristou** : European Planetary Media Center - A public tribune of planetary scientists

Session 3: Tuesday, September 7

16:30-16:45 **Thilina Heenatigala** : Global Astronomy Month - Inaugurating a New Annual Celebration of the Universe

16:45-17:00 **Sotira Trifourki** : Hands on Minds on - Inquiry based learning after the International Year of Astronomy

17:00-17:15 **Rosa M. Ros** : The schoolyard as an observatory IAU-NASE Programme Group

17:15-17:30 **C.J.A.P. Martins** : The Astroquiz Project

17:30-17:45 **Helen Walker** : e-mentoring from SHE is an Astronomer

17:45-18:00 **Oana Sandu** : Nontraditional efforts of communicating astronomy with the public - outreach or outrageous?

SPS8: Amateur and professional astronomers in Europe: how pro-am cooperation is changing astronomy

Session 1: Friday, September 10

09:00-09:15 **Pedro Russo** : The pro-am cooperation in the framework of the International Year of Astronomy

09:15-09:30 **José Ribeiro** : Amateur Astrophysics

09:30-09:45 **Pedro Ré** : Pro-am Collaborations

09:45-10:00 **Jean-Luc Dighaye** : EurAstro pro-am activities

10:00-10:15 **Vadim Burwitz** : High resolution spectrographs in amateur spectroscopy

10:15-10:30 **Sudeep Neupane** : Pro-Am Cooperation for the Development of Astronomy in Nepal

Session 2: Friday, September 10

14:30-14:45 **Michael Risch** : Contemporary Observatory Techniques for Amateurs, Schools and Universities

14:45-15:00 **David Martinez-Delgado** : Searching For Stellar Tidal Streams in Nearby Spiral Galaxies: A Pro-Am Collaboration

15:00-15:15 **Anita Heward** : Europlanet Joint-Research Activities: Empowering the amateur community

15:15-15:30 **P. Ailleris** : Unravelling the sky's mysteries and isolating its anomalies: the Unidentified Aerospace Phenomena Observations Reporting Scheme

15:30-15:45 **H. Lamy** : BRAMS, the Belgian RADio Meteor Stations: a collaboration between professionals and radioamateurs 15:45-16:00 Vitor Bonifácio

Session 3: Friday, September 10

16:30-18:00 **FORUM:**

SPS9: 30 years of IRAM

Session 1: Tuesday, September 7

09:00-09:30 **Pierre Cox** : IRAM: Recent Developments and Future Prospects

09:30-10:00 **Jose Cernicharo** : Recent Results on Astrochemistry: the Role of IRAM

10:00-10:30 **Anne Dutrey** : Protoplanetary Disks

SPS10: CERN: The particle accelerator/astrophysics connection

Session 1: Wednesday, September 8

09:00-09:05 **Welcome by session chair:**

09:05-09:35 **Katsuaki Kasahara** : “The LHCf experiment”

09:35-10:05 **Hans Fynbo** : “Nuclear Physics at Isolde and its implications on Nuclear Astrophysics”

10:05-10:35 **Eberhard Widmann** : “Antimatter at Cern AD and the measurement of fundamental constants”

Session 2: Wednesday, September 8

11:00-11:30 **Ioana Maris** : “Reference measurements for neutrino and cosmic rays physics with NA61”

11:30-12:30 **Discussion:**

SPS11: Teacher Training Session

Session 1: Thursday, September 9

09:00-10:30 **Constance Walker** : The Dark Skies Ranger Programme for GTTP

Session 2: Thursday, September 9

11:00-12:00 **Anita Heward** : Star Reporters - Astronomy Journalism in Schools

12:00-13:00 **Ana Costa, Leonor Cabral** : The International Asteroid Search Campaign

Session 3: Thursday, September 9

14:30-15:30 **Vadim Burwitz** : Teaching Spectroscopy in the Classroom: a Practical Demonstration

15:30-16:00 **Maria Luísa Almeida** : Salsa J - Processing astronomical images @ school (Part I)

Session 4: Thursday, September 9

16:30-17:00 **Maria Luísa Almeida** : Salsa J - Processing astronomical images @ school (Part II)

17:00-18:30 **Maria Luísa Almeida** : Telescópios Robóticos

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