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<td>11:00 – 11:45</td>
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<td>13:15 – 14:30</td>
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<td>Parallel Sessions: S11 Logi3, S12 Move1, Sp10 Logomo, Sp11 Goto31, Sp12 Move2, Sp13 Logi1, Sp14 Goto33</td>
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Dear Colleagues,

It is a great pleasure to welcome you to the European Week of Astronomy and Space Science, held on 8 - 12 July 2013 in Logomo Centre in Turku, Finland. EWASS is the annual meeting of the EAS. The ASTRONET Mid-Term Review meeting, closely connected to the EWASS meeting, is held on Saturday, 13 July.

Turku is the oldest university town and the former capital of Finland. Turku is also well-known for its location in the beautiful archipelago. The time of the meeting, early July, is usually a pleasant season in Southwest Finland with plenty of sunshine and about 20 hours of daylight. Turku, with its seven hills and the river Aurajoki, has a lively cultural life with several museums and art galleries, and it was elected one of the cultural capital cities of Europe for the year 2011.

We hope you will enjoy EWASS 2013 and your stay in Turku!

SOC
Esko Valtaoja, University of Turku, Tuorla observatory, Finland - Co-chair
Jose Miguel Espinosa, IAC, Spain - Co-chair

Members
A. Andersen, University of Copenhagen, Dark Cosmology Centre, Denmark
Pavel Kroupa, Argerlander Universitat, Germany
Georges Meylan, EPFL, Switzerland
Dmitri Yakovlev, Russia IoffePhysico-Technical Institute, Russia
Andrea Ferrara, Scuola Normale Superiore, Italy
Juri Poutanen, University of Oulu, Finland
Merja Tornikoski, Aalto University, Finland
Peter Johansson, University of Helsinki, Finland
Jari Kotilainen, University of Turku, FINCA, Finland
Hannu E. Koskinen, University of Helsinki, Finland

LOC
Aimo Sillanpää, University of Turku, Tuorla observatory, Finland - Co-chair
Leo Takalo, University of Turku, Tuorla observatory, Finland - Co-chair
Pasi Nurmi, University of Turku, Tuorla observatory, Finland - Co-chair

Members
Pekka Heinämäki, University of Turku, Tuorla observatory, Finland
Seppo Katajainen, University of Turku, Tuorla observatory, Finland
Elna Lindfors, University of Turku, FINCA, Finland
Kari Nilsson, University of Turku, FINCA, Finland
Juha Reunanen, University of Turku, Finland
Pihla Sillanpää, University of Turku, Finland
Congress Office, University of Turku, Finland

Organized by
University of Turku
EAS

Sponsors
Astronet
Federation of Finnish Learned Societies
The City of Turku
Turku University Foundation

Exhibitors
A&A
Cambridge University Press
CTA
ESA
ESO
Opteon
Oxford University Press
Springer
Plenary lectures (location: Logomo)

MONDAY, 8 July at 9:45-10:30
*The origin of the primordial perturbation*
*Kari Enqvist*, University of Helsinki, Finland

TUESDAY, 9 July at 9:45-10:30
*Herschel Space Observatory - Highlights of star formation studies*
*Mika Juvela*, University of Helsinki, Finland

TUESDAY, 9 July at 11:00-11:45
*Into the cold - extragalactic astronomy with ALMA*
*Susanne Aalto*, Chalmers University of Technology, Sweden

WEDNESDAY, 10 July at 11:00-11:45
*Luminous flares from tidally disrupted stars, and the search for supermassive black holes in quiescent galaxies*
*Stefanie Komossa*, Max Planck Institute for Physics, Germany

THURSDAY, 11 July at 9:45-10:30
*Gamma-Ray Bursts as probes of galaxy evolution*
*Johan Fynbo*, University of Copenhagen, Denmark

FRIDAY, 12 July at 9:00-9:45
*Latest news from ESA’s science programme*
*Arvind Parmar*, ESA

FRIDAY, 12 July at 9:45-10:30
*ESO 2013*
*Bruno Leibundgut*, ESO, Germany

FRIDAY, 12 July at 11:00-11:45
*High-energy Gamma-ray astrophysics: The new frontier*
*Stefan Wagner*, University of Heidelberg, Germany

We are pleased to announce the following prizes (location: Logomo)

MONDAY, 8 July at 11:00-11:45, **Grote Reber Prize Lecture**
Grote Reber Prize is awarded to *James Moran*, Harvard-Smithsonian Center for Astrophysics

TUESDAY, 9 July at 9:00-9:45, **Tycho Brahe Prize Lecture**
The 2013 Tycho Brahe Prize is awarded to the Italian astrophysicist Professor *Massimo Tarenghi*.

WEDNESDAY, 10 July at 9:00-10:30, **Merac prize Lectures** (3x30 min)
The 2013 MERAC Prizes for the Best Early Career Researcher are awarded in
- Theoretical Astrophysics to *Gabriella De Lucia* for her work on the theoretical modeling of galaxy formation and evolution.
- Observational Astrophysics to *Elisabetta Caffau* for the discovery of a very primitive low-mass star in our Galaxy.
- New Technologies to *Justin Read* for his high-impact research in computational astrophysics and cosmology.

THURSDAY, 11 July at 9:00-9:45, **Lodewijk Woltjer Lecture**
The 2013 Lodewijk Woltjer Lecture is awarded to Dr. *Suzy Collin-Zahn*. 
Congress venue
The congress is held at LOGOMO address: Köydenpunojankatu 14
LOGOMO is located close to Turku main railway station and the bus station. A pedestrian bridge by the railway station allows you to reach Logomo in just 5 minutes. From the city centre Market Square, it takes about 15 minutes to walk to Logomo. Bus numbers 20 (direction Muhkuri) and 61 (direction Vienola) from the Market square go to Logomo. Tickets can be bought from the driver, single ticket à 2,50 eur. See the congress map on the inside of the back cover with walking directions from the city centre to Logomo marked on the map, as well as all other important locations.

Congress Office on-site
The Congress Office will be ready to assist you at the congress venue during the scientific programme. The on-site telephone number of the Congress Office is +358 (0)40 725 3538.
In addition to Congress Office staff, EWASS assistants will be at your service, you will recognize them by their black “Kiss my Turku” T-shirts.

Lunch and coffee
Lunch and coffee will be served in the lobby area, by the main lecture hall.

Name badges
Your name badge is your ticket to lunch and coffee servings, please wear your badge throughout the congress.

Wireless Internet access
Username: logomompublic
Password: IoGomo2012

Certificates of attendance
If you need a certificate of attendance, please contact the Congress Office staff on the information desk.

Smoking
Smoking is prohibited inside public buildings.

Taxi
At the congress venue you can ask the Congress Office to call you a taxi.
Taxi tel. +358 2 10041

Forex
You can exchange foreign currency and traveller’s cheques at the Forex currency exchange company, address: Eerikinkatu 13, by the Market Place.

Welcome to the museum
The City of Turku offers the EWASS participants a museum visit in Turku at a discount of 25%. The code is valid in the following museums:
Turku Castle
Wäinö Aaltonen Museum of Art
Luostarinmäki Handicrafts Museum
Pharmacy Museum and the Qwensel House
Turku Biological Museum
Kylämäki Village of Living History
Please check the opening hours at www.turunmuseokeskus.fi
You will get the discount by presenting the code at the ticket office when purchasing the ticket. The code is valid on 7 - 14 July 2013.
code: Museo071306
Get-together Party
Monday, 8 July at VPK:n talo at 19.00-20.30, Address: Eskelinkatu 5, Turku
The Get-together Party is held at VPK:n talo (Volunteer Fire-brigade Banquet Hall).
Please note that pre-registration is required.

Conference Dinner
Wednesday, 10 July at Restaurant Koulu, at 19.00, Address: Eerikinkatu 18, Turku
Dinner tickets à 50 EUR
The Conference Dinner is held at the Brewery Restaurant Koulu. The beautiful neo-renaissance building was built in 1889 and it formerly served as a school. Thus the name of the restaurant “Koulu”, school in English. Nowadays Koulu is the largest brewery restaurant in Finland. Come and enjoy a buffet dinner accompanied by live music performances and good company.

Excursions:

Visit to Tuorla Observatory
Tuesday, 9 July at 19.00, Tickets à 20 EUR (includes bus transportation, guided tour, coffee). The bus departs from LOGOMO at 19.00, but will drive by the city centre hotel Sokos Hotel Hamburger Börs (Kauppiaskatu 6) and stop also there to pick up participants at 19.10.
Tuorla Observatory is the largest astronomical institute in Finland. Tuorla Observatory is a division of the Department of Physics and Astronomy at the University of Turku, working in close collaboration with the Finnish Centre for Astronomy with ESO: FINCA.

Walking tour of the Old Great Square
Tuesday, 9 July at 19.15, Tickets à 10 EUR (includes guided tour)
The guide will meet the participants in front of the Turku Cathedral
Join this tour to learn about the intriguing, eventful and, at times, dramatic history of the Old Great Square and Turku Cathedral.

Dinner cruise to Loistokari island
Tuesday, 9 July at 19.00, s/s Ukkopekka departs from the river Aura, by the Martinsilta bridge at 19.00, return at 23.00. Tickets à 52 eur (children 3-14 years -50%), the ticket includes cruise & programme, starters on board Ukkopekka and dinner on the Loistokari island, drinks can be bought separately.
Join a cruise on board the steamship s/s Ukkopekka to the little island of Loistokari in the beautiful Turku archipelago. Spend an evening to remember in the unique archipelago.

Academic walk
Thursday, 11 July at 19.15, Tickets à 12 EUR (includes guided tour)
The guide will meet the participants on the side of the Turku Cathedral, by the Agricola statue.
Stepping into the history and present of the academic Turku! The Academic Walk is a unique opportunity to experience the colourful history of the academic Turku.

Sauna party
Thursday, 11 July at Kavalto farm, Tickets à 65 EUR (includes bus transportation, sauna, towels, light dinner)
The bus departs from LOGOMO at 19.00, but will drive by the city centre hotel Sokos Hotel Hamburger Börs (Kauppiaskatu 6) and stop also there to pick up participants at 19.10.
An opportunity to relax in the traditional Finnish Sauna in a traditional farm, only a stone’s throw from Turku, situated amidst beautiful countryside by the Gulf of Piikkiö. After enjoying the hot steams in sauna, you may take a swim in the cool waters of a pond (don’t forget to bring your swimsuit). Light dinner will be served.

Remember to bring your social programme ticket with you and present it at the entrance to the restaurants or to tour guides in the beginning of the excursion.
Symposium S1 - Solar Activity and its Manifestations in the Whole Heliosphere

MONDAY, 8 July 2013, location: Goto33

Monday, Session 1
11:45-12:15  A. Vourlidas  The Solar Eruptive Event: A Synthesis of CMEs, Flares, and Energetic Particle Production (Invited Review)
12:15-12:30  J. Pomoell  The evolution of CME-initiated disturbances in the low corona: preliminary results from a data-driven modeling approach
12:30-12:45  J. Warnecke  Dynamo driven coronal ejections
12:45-13:00  S. Kolomanski  Coronal flare sources in SDO/AIA observations
13:00-13:15  A. Afanasiev  Proton stochastic re-acceleration in the downstream region of a coronal shock

Monday, Session 2
14:30-14:50  M. Pesce-Rollins  Fermi Large Area Telescope observations of high-energy gamma-ray emission from solar flares (Solicited)
14:50-15:05  R. Rodríguez-Gasén  High energy observations of solar flares associated with SEP events
15:20-15:35  A. Stepanov  On the origin of QPOs in sub-THz emission from solar flares
15:35-15:50  N. Agueda  Solar Energetic Electron Sources as Inferred from a Comparison of In-situ and Electromagnetic Observations
15:50-16:05  S. Grib  Solar MHD discontinuities as one of the features of the solar activity

Monday, Session 3
16:30-16:45  A. Mishev  Application of method for recent analysis of ground level enhancements using neutron monitor data
16:45-17:00  L. Kocharov  Three-Dimensional View of Major Solar Energetic Particle Events
17:00-17:15  B. Heber  The First Ground Level Event of Solar Cycle 24 and its longitudinal distribution in the inner heliosphere
17:15-17:45  A. Rouillard  Variability of the interplanetary medium driven by solar activity (Invited Review)
17:45-18:00  T. Laitinen  Energetic particle cross-field propagation early in a solar event

TUESDAY, 9 July 2013, location: Goto33

Tuesday, Session 1
11:45-12:00  E. Valtonen  Reliability of velocity dispersion analysis in associating solar proton acceleration phase with radio emissions
12:00-12:20  A. Retinò  In situ observations of magnetic reconnection and associated particle energization in turbulent plasmas (Solicited)
12:20-12:40  A. Isavnin  Three-dimensional evolution of ejected flux ropes from the Sun to 1 AU (Solicited)
12:40-13:00  H. Hietala  Particle acceleration in shock-shock interaction (Solicited)
13:00-13:15  G. Molera Calvés  Interplanetary scintillations analysis retrieved from Venus Express observations
Tuesday, Session 2
14:30-14:45  B. Shergelashvili  The low-frequency boundary of sun-generated magnetohydrodynamic turbulence in the slow solar wind
14:45-15:15  R. Järvinen  Hybrid modelling studies of planetary-solar wind interactions (Invited Review)
15:15-15:30  M. Alho  Global Hybrid modelling of solar energetic particles in the plasma environments of Mars and Venus
15:30-16:00  A. Seppälä  Solar storms and energetic particles - Shaking the Earth's atmosphere (Invited Review)

Tuesday, Session 3
16:30-16:50  L. Turc  Interaction of magnetic clouds with the Earth's magnetosphere (Solicited)
16:50-17:05  E. Kilpua  Relationship between magnetic cloud field polarity and geoeffectiveness
17:05-17:35  O. Malandraki  Solar Energetic Particles, Coronal Mass Ejections and Space Weather effects (Invited Review)
17:35-17:55  L. Rodriguez  Space weather services at the Royal Observatory of Belgium (Solicited)

Posters
1) I. Dorotovic  Coronal bright points tracking using a hybrid S-PSO algorithm
2) I. Dorotovic  Coronal Emission Line of FeXV (28.4 nm) during a Solar Activity Cycle (1996 – 2012)
4) B. Heber  SEPServer solar energetic particle event catalogue in and out of the ecliptic; a Ulysses COSPIN/KET, COSPIN/LET and HISCALE particle data driven study
5) M. Marsh  Asymmetric Perpendicular Transport of Solar Energetic Particles
6) A. Mishev  New computation of the neutron monitor yield function – towards GLE analysis
7) D. Pérez-Suárez  Matching Coronal Mass Ejections with their effects, an automated method
8) O. Sheiner  The effects of CME manifestations in the ionosphere
9) R. Vainio  A Simulated Solar Energetic Particle Event at Solar Probe Plus
**Symposium S2 - The physics of accretion on compact objects: a multi-messenger approach**

**MONDAY, 8 July 2013, location: Logomo**

**Monday, Session 1: Broad-band spectroscopy: from radio to gamma-rays – Chair: Juri Poutanen**

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<td>Malzac, Julien</td>
<td>Broad-band spectroscopy: from radio to gamma-rays</td>
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<tr>
<td>12:30-12:45</td>
<td>Koljonen, Karri</td>
<td>Interpreting the spectral evolution of GX 339-4 through the hardness-intensity diagram</td>
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<tr>
<td>12:45-13:00</td>
<td>Neustroev, Vitaly</td>
<td>Far-ultraviolet and optical spectroscopy of the black hole candidate SWIFT J1753.5-0127</td>
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<td>Linares, Manuel</td>
<td>Luminosity-hardness correlation in accreting neutron stars</td>
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**Monday, Session 2: Fast variability – Chair: Phil Uttley**

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<td>X-ray variability of compact objects as a tool of accretion physics</td>
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<td>Heil, Lucy</td>
<td>Power colours: comparing power spectra without fitting</td>
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<td>Petri, Jerome</td>
<td>Constraining the mass and moment of inertia of neutron stars from quasi-periodic oscillations in X-ray binaries</td>
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<td>Balman, Solen</td>
<td>On the X-ray variability and inner disk structure of dwarf novae</td>
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**Monday, Session 3: Black holes on all scales – Chair: Michiel van der Klis**

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<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:30-17:15</td>
<td>Uttley, Phil</td>
<td>Variability in accreting super-massive black holes: origins and consequences</td>
</tr>
<tr>
<td>17:15-17:45</td>
<td>Schartel, Norbert</td>
<td>XMM-Newton highlights of compact objects</td>
</tr>
<tr>
<td>17:45-18:00</td>
<td>González Hernández, Jonay I.</td>
<td>Probing angular momentum loss in black hole X-ray binaries: the cases of XTE J1118+480 and A0620-00</td>
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</table>

**TUESDAY, 9 July 2013, location: Logomo**

**Tuesday, Session 4: Accretion and fundamental physics – Chair: Yuri Levin**

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:45-12:30</td>
<td>Rafikov, Roman</td>
<td>New ideas on mechanisms of angular momentum transport and variability in boundary layers of accretion disks</td>
</tr>
<tr>
<td>12:30-12:45</td>
<td>Lutovinov, Alexander</td>
<td>High mass X-ray binaries in the Milky Way</td>
</tr>
<tr>
<td>12:45-13:15</td>
<td>Boller, Thomas</td>
<td>Astronomical tests of General Relativity with X-ray and NIR spectroscopy in Galactic binaries, the GC and in bright AGN</td>
</tr>
</tbody>
</table>

**Tuesday, Session 5: Accretion discs – Chair: Andrzej Zdziarski**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:30-15:00</td>
<td>Poutanen, Juri</td>
<td>Hot accretion discs in black hole binaries</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Kolehmainen, Mari</td>
<td>The disc inner radius in the low/hard state of black hole binaries</td>
</tr>
<tr>
<td>15:20-15:40</td>
<td>Koliopanos, Filippous</td>
<td>X-ray diagnostics of chemical composition of the accretion disk and donor star in ultra-compact X-ray binaries</td>
</tr>
<tr>
<td>15:40-16:00</td>
<td>Zaw, Ingyin</td>
<td>Testing alpha-disk accretion model in the inner-most parsec of AGN with water masers</td>
</tr>
</tbody>
</table>
Tuesday, Session 6: Jets and coronae of the black holes – Chair: Julien Malzac

16:30-17:15  Sikora, Marek  What makes the jet production efficiency in AGN so diverse?
17:15-17:45  Zdziarski, Andrzej  Contributions from jets and accretion to emission of accreting black-hole binaries
17:45-18:00  Del Santo, Melania  High-energy emission of Cygnus X-1: the magnetic field in the X-ray corona

Posters

1) Akyuz, Aysun  Detection of a quasi-periodic oscillation from a ULX in NGC 4736
2) Boirin, Laurence  Simulated spectra of accretion disk winds for Athena+
3) Boneva, Daniela  Flow dynamics modeling during the active state of accreting compact binary stars
4) Castro, Manuel  Observations of 1E 1740.7-2942: analysis of the soft emission
5) Gális, Rudolf  AG Draconis - rigorous period analysis of photometric observations obtained over 120 years
6) Gális, Rudolf  X-ray and Optical Activity of Intermediate Polars
7) Güngör, Can  Aquila X-1 in outburst
8) Hric, Ladislav  RS Oph – flickering activity and accretion disc formation
9) Sabatini, Sabina  Gamma-ray monitoring of Galactic Microquasar
10) Stepnik, Agnieszka  On the origin of non-thermal electrons in hot accretion flows
### Symposium S3 - Science with Planck data

**MONDAY, 8 July 2013, location: Logi1**

#### Monday, Block 1: Cosmic Microwave Background cosmology I

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:45-12:20</td>
<td>Andrew Jaffe</td>
<td>Cosmic Microwave Background cosmology (Invited review talk)</td>
</tr>
<tr>
<td>12:25-12:45</td>
<td>Matti Savelainen</td>
<td>Planck constraints on primordial Isocurvature perturbations</td>
</tr>
<tr>
<td>12:50-13:10</td>
<td>Ophélia Fabre</td>
<td>Constraints on variation of fundamental constants</td>
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<tr>
<td>13:15-14:30</td>
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<td>Lunch</td>
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#### Monday, Block 2: Cosmic Microwave Background cosmology II

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:30-15:05</td>
<td>Hannu Kurki-Suonio</td>
<td>Cosmic Microwave Background cosmology (Invited review talk)</td>
</tr>
<tr>
<td>15:10-15:30</td>
<td>Elina Keihänen</td>
<td>Beam deconvolution and search of variable sources in Planck LFI maps</td>
</tr>
<tr>
<td>15:35-15:55</td>
<td>Martin López-Corredoira</td>
<td>Peaks in the CMBR power spectrum: Physical interpretation for any cosmological scenario</td>
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<tr>
<td>16:00-16:30</td>
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<td>Coffee</td>
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**Monday, Block 2: continues**

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>16:30-16:50</td>
<td>Anna Mangilli</td>
<td>The CMB non-Gaussianity as seen by Planck</td>
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#### Monday, Block 3: Extragalactic sources

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<tr>
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<tbody>
<tr>
<td>16:55-17:30</td>
<td>Anne Lähteenmäki</td>
<td>Extragalactic radio source science with Planck data (Invited review talk)</td>
</tr>
<tr>
<td>17:30-18:00</td>
<td>Bruce Patridge</td>
<td>Planck ability to measure unresolved sources (Invited talk)</td>
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**TUESDAY, 9 July 2013, location: Logi1**

#### Tuesday, Block 4: Galactic astrophysics

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:45-12:20</td>
<td>Richard Davis</td>
<td>Galactic Science with the Planck spacecraft (Invited review talk)</td>
</tr>
<tr>
<td>12:25-12:45</td>
<td>Alves Marta</td>
<td>Dust emission at Planck millimetre wavelengths in the Galactic plane</td>
</tr>
<tr>
<td>12:50-13:10</td>
<td>Dana Alina</td>
<td>The Planck Dust Polarization Sky</td>
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<tr>
<td>13:15-14:30</td>
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<td>Lunch</td>
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**Tuesday, Block 4: continues**

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<tbody>
<tr>
<td>14:30-14:45</td>
<td>Richard Davis</td>
<td>Diffuse Galactic components in the Gould Belt System</td>
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#### Tuesday, Block 5: Clusters and Secondary Anisotropies

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>14:50-15:25</td>
<td>Juan Francisco Macias-Perez</td>
<td>Measuring the thermal Sunyaev-Zeldovich (tSZ) with Planck (Invited review)</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>Isabel, Suarez-Velasquez</td>
<td>The signature of the Warm Hot Intergalactic Medium in WMAP and PLANCK data</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td></td>
<td>Coffee</td>
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</table>
Tuesday, Block 6: Planck databases and future prospects
16:30-17:05  Xavier Dupac  The Planck Legacy Archive: current status, contents and future development (Invited review)
17:10-17:45  Thomas Kitching  Euclid: A space mission to map the dark Universe (Invited talk)

Posters
1) Olga Sergijenko  Dynamical dark energy with barotropic equation of state: constraints from Planck data
2) Benjamin Walter  Using Planck to Calibrate Ground-Based Radio Telescopes
3) Jörg P. Rachen  Variability and Transient Search in the mm-regime with Planck
Symposium S4 - The mystery of ellipticals

6 invited review talks, 25 mins each (IR) 7 invited highlight talks, 20 mins each (IH) 17 contributed talks, 15 mins each 8 posters

MONDAY, 8 July 2013, location: Move 1

Monday, Session 1: Observations and stellar populations of early-type galaxies at low redshift
11:45-11:50 Welcome
11:50-12:10 Claudia Maraston The mysteriously simple stellar populations of elliptical galaxies (IH)
12:10-12:35 Daniel Thomas The stellar populations of elliptical galaxies (IR)
12:35-12:50 Francesco La Barbera Revealing the Stellar Population Content in the Outer Halo of Massive Galaxies
12:50-13:05 Esther Marmol-Queralto The mysterious proper masses of local compact massive galaxies: not what we expected
13:05-13:20 Denija Crnojevic The Outer Halo of the Nearest Giant Elliptical: A VLT/VIMOS Survey of the Resolved Stellar Populations in Centaurus~A to 85~kpc

Monday, Session 2: Observations and stellar populations of early-type galaxies at high redshift
14:45-15:10 Ignacio Trujillo The growing history of massive galaxies (IR)
15:10-15:30 Jesse van de Sande Stellar kinematics of z~2 galaxies and the inside-out growth of quiescent galaxies (IH)
15:30-15:45 Mattia Fumagalli How dead are dead galaxies?
15:45-16:00 Ignacio Ferreras The progenitors of mergers with massive galaxies at z<1
16:00-16:30 Lunch
16:30-16:45 Carlos Lopez-Sanjuan The major merger origin of massive ETGs since z = 2
16:45-17:00 Vivienne Wild How much of the red sequence is built through gas-rich major mergers?
17:00-17:15 Elizabeth McGrath Quiescent Disks in the Early Universe
17:15-17:30 Caroline Straatman The evolution and formation of star forming and quiescent galaxies to z=4 from Z-FOURGE
17:30-17:45 Fernando Buitrago Ongoing assembly of massive early-type galaxies in the HUDF12
17:45-18:00 Veronica Strazzullo Early-type galaxies in the most dense high-redshift environments: a study in the CI J1449+0856 cluster at z=2

TUESDAY, 9 July 2013, location: Move 1

Tuesday, Session 3: Observations and modelling of early-type galaxy dynamics
11:45-12:10 Michele Cappellari Observations and modelling of early-type galaxy dynamics (IR)
12:10-12:30 Chiara Spiniello The XLENS Project: Luminous & Dark Matter in massive Early-Type Galaxies (IH)
12:30-12:45 Adriana Gargiulo Kinematics of high redshift compact early-type galaxies: are they really denser?
12:45-13:00 Sperello di Serego Alighieri Do compact ellipticals at z~1-2 also have larger velocity dispersion?

Tuesday, Session 4: Early-type galaxies in semi-analytic models
13:00-13:20 Rob Yates The chemical evolution of elliptical galaxies: Insights from semi-analytic models (IH)
13:15-14:30 Lunch
14:30-14:55  Francesco Shankar  Evolution of spheroids in Semi-Analytic Models of galaxy formation (IR)
14:55-15:10  Martin Stringer  Unravelling mysteries of galaxy size evolution with cosmology & feedback

Tuesday, Session 5: Early-type galaxies in numerical simulations
15:10-15:35  Peter Johansson  Assembly histories and observational properties of simulated Early-Type Galaxies (IR)
15:35-15:50  Elena Ricciardelli  Structure, dynamics and stellar population characterization of massive virtual galaxies at z=0
15:50-15:55  Rhea-Silvia Remus  The Dark Halo -- Spheroid Conspiracy and the Origin of Elliptical Galaxies
16:05-16:30  Ewald Puchwein  The formation and evolution of central cluster and group galaxies (IH)
16:30-16:50  Chervin Laporte  The Growth in Size and Mass of Cluster Galaxies since z= 2  (IH)

Tuesday, Session 6: New/future observing facilities
17:10-17:35  Pablo Perez-Gonzalez  New/future observing facilities and surveys (IR)
17:35-17:55  Javier Cenarro  The Javalambre-PAU Astrophysical Survey: A Low Resolution IFU of the Northern Sky (IH)

Posters:
1) Hugo Ledo  Tracing early-type galaxy assembly with nuclear stellar disks
2) Iaria Lonoce  Star Formation History of z~1 Early-type galaxies
3) Martín López-Corredoira  The age of extremely red and massive elliptical galaxies at very high redshift
4) Ronald Läsker  Bottom-heavy initial mass function in a nearby compact L*-galaxy
5) Antonina Marino  Early-type galaxies across the UV-optical color magnitude diagram
6) Russell Smith  ESO325-G004: A massive elliptical galaxy with a lightweight IMF
7) Sonia Tamburri  Scaling relations of high-z Early Type galaxies: dependence on selection criteria
8) Heidi Yli-Kankahila  Numerical studies of the chemical enrichment in disk galaxy merger remnants
Symposium S5 - Local Group, Local Cosmology

Invited talks - 20+5 min, targeted talks - 16+4 min, contributed talks - 12+3 min

MONDAY, 8 July 2013, location: Logomo
09:00-10:30 Plenary session
10:30-11:00 Coffee Break
11:00-11:45 Plenary session

MONDAY, 8 July 2013, Symposium S5, location: Move 2

Monday, Session 1: The Local Group – Chair: E. Tolstoy
11:45-11:50 Welcome address
11:50-12:15 G. Gilmore The Local Group: an observational perspective
12:15-12:35 G. Battaglia The internal kinematics and mass content of Local Group dwarf galaxies
12:35-12:50 D. Crnojevic A global view of the resolved stellar populations in M31 dwarf elliptical satellites
12:50-13:05 M. Collins Assessing the dynamics and abundances of Andromeda's dwarf spheroidal galaxies
13:05-13:20 M. Smith New insights into the Sagittarius stream
13:20-14:30 Lunch

Monday, Session 2: SF through the cosmic time – Chair: J. Read
14:30-14:55 C. Gallart Gas-rich and gas-poor dwarf galaxies in the Local Group
14:55-15:15 P. Jablonka Hydrodynamical simulation of dwarf galaxies
15:15-15:40 M. Ricotti The Living Fossils of the First Galaxies
15:40-16:00 T. Brown The Formation History of the Ultra-Faint Dwarf Galaxies
16:00-16:30 Coffee Break

Monday, Session 2 continued – Chair: M.G. Lee
16:30-16:55 S. Cassisi Stellar evolution models: current uncertainties and their impact on population synthesis tools
16:55-17:10 R. Leaman Using Radial Metallicity Gradients in Dwarf Galaxies to Study Environmental Processing
17:10-17:35 R. Bouwens What Current Observations Can Teach Us About The Properties of Galaxies in the Early Universe
17:35-17:50 E. Sobacchi How does inhomogeneous reionization impact the gas content of galaxies?
17:50-18:05 E. Fernandez Cumulative Light from the Epoch of Reionization - the Near Infrared Background and the 21cm Line

TUESDAY, 9 July 2013, location: Logomo
09:00-10:30 Plenary session
10:30-11:00 Coffee Break
11:00-11:45 Plenary session

TUESDAY, 9 July 2013, Symposium S5, location: Move 2

Tuesday, Session 3: Chemical evolution – Chair: P. Bonifacio
11:45-12:10 K. Venn Chemical substructure in the Local Group
12:10-12:35 T. Beers Carbon-Enhanced Metal-Poor Stars (CEMPs): Probes of Nucleosynthesis from the First Generation of Stars in the Universe
12:35-12:50 Y. Komiya Current Signatures and Search for Pop. III stars in the Local Universe
Tuesday, Session 3 continued – Chair: G. De Lucia
14:30-14:55  M. Pettini  Very Metal-Poor Damped Lyman alpha Systems: A Window on Early Nucleosynthesis
14:55-15:10  T. Oosterloo  Is GBT 1355+5439 a dark galaxy?
15:10-15:30  J. Wise  The first galaxies: primordial enrichment
15:30-15:55  A. Ferrara  Elusive, rare, hidden: first stars
16:00-16:30  Coffee Break

Tuesday, Session 4: The future – Chair: F. Garzon
16:30-16:55  G. Bono  Resolved and Unresolved Stellar Populations in the nearby Universe in the E-ELT era
16:55-17:15  A. Robin  Gaia: a new vision of the Milky Way
17:15-17:35  A. Pawlik  The first galaxies: assembly of disks and prospects for observation
17:35-17:55  Final Discussion
18:00-18:30  Plenary session: Andreas Keil: European Research Council funding opportunities (Location Logi2)

Posters:
1) A. del Pino Molina  Unravelling a complex system: The Fornax Dwarf Spheroidal Galaxy
2) A. Di Cecco  On the absolute age of the Galactic Bulge globular M71
3) M. Di Criscienzo  The contribution of AGB stars to cosmic dust production: a theoretical approach
4) M. Di Criscienzo  STREGA@VST collaboration
5) P. Drazinos  Star forming regions in nearby galaxies: a potential application for Gaia’s observations
6) M. Fujii  From star forming regions to star clusters: N-body simulations of young star clusters
7) C. Gen  Growth of dust grains in a low-metallicity gas and its effect on the cloud fragmentation
8) M. Guglielmo  The History of the Magellanic Clouds: A Genetic Approach
9) M. G. Lee  Formation of M31 revealed from globular clusters
10) N. Kaltcheva  Star-Formation in the Young Supershell GSH 305+01-24
11) T. Nyktytyuk  A chemical evolution of Local dwarf galaxies: Leol
12) A. Skuladottir  Connecting dwarf galaxies and Damped Lyman Alpha systems
13) T. Suda  Stellar Abundances for Galactic Archaeology Database for Stars in Dwarf Galaxies
14) A. Tamm  Neighbourhood cosmology with the Andromeda galaxy
15) E. Tempel  Detecting filamentary pattern in the Universe
16) P. Tenjes  Structure of spiral arms in M31
17) J. Veljanoski  Kinematics of Outer Halo Globular Clusters in M31
18) R. Zenoviene  Abundances of heavy elements in the stellar substructures
Symposium S7 - Stellar magnetic activity across the HR diagram

WEDNESDAY, 10 July 2013, location: Logi1

Wednesday, Session 1
14:15-14:45  Dmitry Sokoloff  Solar magnetic cycle
14:45-15:15  Thorsten Carroll  Observational techniques
15:15-15:45  Heidi Korhonen  Magnetism and cycles in late-type stars

Wednesday, Session 2
16:15-16:45  Swetlana Hubrig  Magnetic fields in OB stars
16:45-17:00  Petri Käpylä et al.  Dynamo action in the iron convection zones of OB-stars
17:00-17:30  Alfio Bonanno  The generation of magnetic fields in neutron stars
17:30-17:45  Seppo Katajainen et al.  Polarization Survey For Bright AM CVn Systems

THURSDAY, 11 July 2013, location: Logi1

Thursday, Session 3
11:00-11:30  Axel Brandenburg  The solar dynamo and its spots as a shallow phenomenon
11:30-11:45  Illa Losada et al.:  Competition of rotation and stratification in flux concentrations
11:45-12.00  Jan Snellman et al.  Relaxation-type second order closure models in astrophysical hydrodynamics
12:00-12:15  Jörn Warnecke et al.  Solar-like differential rotation in a convective dynamo with a coronal envelope
12:15-12:30  Elizabeth Cole et al.  Nonaxisymmetric large-scale dynamos in rapidly rotating spherical shell convection

Thursday, Session 4
16:00-16:15  Thomas Hackman et al.  Spot activity, differential rotation and dynamo waves
16:15-16:30  Alexander Stepanov et al.  Discovery of optical sub-second spikes in UV Cet i giant flare
16:30-16:45  Jyri Lehtinen et al.  Observations of magnetic activity on young solar type stars
16:45-17:00  Marjaana Lindborg et al.  Spot activity of rapidly rotating late-type stars
17:00-17:15  Nariman Ismailov  Spectral and photometric behavior of RY Tau
17:15-17:30  Maarit Mantere et al.  Active longitudes and their role for dynamos
17:30-18:00  Poster presentations
18:00-18:30  Dmitry Sokoloff  Symposium summary

Posters
1) Icli, Tugce  The interacting binary system OO Aql
2) Kholtygin, Alexander  Statistics of Stellar Magnetic Fields
3) Pogodin, M. A.  Unusual binary system HD83058: orbital parameters, atmospheric models and line profile variabilities
Symposium S8 - Deaths of massive stars as supernovae and gamma-ray bursts

WEDNESDAY, 10 July 2013, location: Move2

14:15-14:20  Seppo Mattila  Welcome

Wednesday, Session 1: CCSN progenitors, spectra and CSM interaction
14:20-14:50  Justyn Maund  The Progenitors of Core-collapse Supernovae
14:50-15:05  Jose Groh  Predicting the look of massive stars before death
15:05-15:35  Anders Jerkstrand  Nebular phase spectral modeling of core-collapse supernovae
15:35-15:50  Mattias Ergon  SN 2011dh - Current state of research
15:50-16:15  Coffee break
16:15-16:45  Claes Fransson  Observations and progenitor scenarios of Type IIn SNe
16:45-17:00  Francesco Taddia  Carnegie Supernova Project: Observations of Type IIn supernovae
17:00-17:30  Andrea Pastorello  Impostors and interacting supernovae connection
17:30-18:00  Oliver Krause  Light Echoes of Core-Collapse Supernovae

THURSDAY, 11 July 2013, location: Move2

Thursday, Session 1: Long GRBs and the SN-GRB connection
11:00-11:30  Sandra Savaglio  Host galaxies of long gamma-ray bursts
11:30-11:45  Darach Watson  The origin of soft X-ray absorption in gamma-ray burst afterglows
11:45-12:00  Amati Lorenzo  Measuring cosmological parameters with GRBs: status and perspectives
12:00-12:30  Daniele Malesani  What we know for sure: most long GRBs come from exploding massive stars
12:30-13:30  Lunch
13:30-14:00  Zach Cano  The progenitors of grbSNe
14:00-14:15  Xue Li  The absolute magnitudes of GRB-SNe
14:15-14:30  Luca Izzo  Observations of the IGC process in some GRBs-SNe and applications to cosmology
14:30-15:00  Massimo Della Valle  What fraction of CCSNe give rise to GRBs?

Thursday, Session 2: SN surveys and rates
15:00-15:30  Avishay Gal-Yam  New frontiers in transient science from PTF and iPTF
15:30-16:00  Coffee break
16:00-16:30  Giorgos Leloudas  Super-luminous supernovae and their host galaxies
16:30-16:45  Rupak Roy  Optical photometric and spectroscopic follow-up observations of the luminous Supernova 2012aa
16:45-17:15  Maria Teresa Botticella  SN rate in the local Universe
17:15-17:25  Break
17:25-17:55  Jens Melinder  Core-collapse supernovae - rates and host galaxy properties
17:55-18:10  Erkki Kankare  Core-collapse supernovae in luminous infrared galaxies
18:10-18:25  Tuomas Kangas  Spatial distributions of core-collapse supernovae in actively star-forming galaxies
18:25-18:30  Jesper Sollerman  Concluding remarks
**Posters:**

1) Martina Cardillo - SNRs and CRs: new challenges after a breakthrough
2) Ting-Wan Chen - Host galaxy environments of the super-luminous supernovae
3) Jussi Harmanen - Photometric and spectroscopic monitoring of the type IIn supernova 2011ap
4) Dolunay Kocak - The interacting binary system OO Aql
5) Katia Migotto - Time evolution of emission lines from inner ring of SN 1987A
6) Marco Muccino - GRB 090227B, a genuine short burst, and GRB 090510, a disguised short burst in the highest CircumBurst Medium ever inferred
7) Tuulia Pennanen - Simulations of gamma-ray burst afterglows
8) Eda Sonbas - A search for gamma-ray burst remnant candidate in spiral galaxy M101
9) Ari Takalo - Supernova detection efficiency inside starburst and luminous infrared galaxies
Symposium S9 - Extreme physics of neutron stars

WEDNESDAY, 10 July 2013, location: Logi2

Wednesday, Session 1: EOS, masses and radii
14:15-14:25  Yakovlev, Dima  Introduction
14:25-15:10  Haensel, Pawel  Equation of state, masses, and radii of neutron stars
15:10-15:45  Poutanen, Juri  X-ray bursts and the equation of state
15:45-16:15  Coffee break

Wednesday, Session 2: X-ray bursts
16:15-17:00  Jean in 't Zand  Observations of X-ray bursts
17:00-17:15  Linares, Manuel  Thermonuclear bursts from slowly and rapidly accreting neutron stars
17:15-17:30  Cavecchi, Yuri  The mechanism of flame propagation in Type I bursts
17:30-17:45  Näättilä, Joonas  Influence of accretion flow on the cooling of neutron star atmospheres after X-ray bursts: implications for mass and radius determination

THURSDAY, 11 July 2013, location: Logi2

Thursday, Session 3: X-ray and gamma-ray pulsars
11:00-11:25  Tsygankov, Sergey  Power spectra of transient X-ray pulsars: estimation of the neutron stars magnetic field
11:25-11:45  Mushtukov, Alexander  A reflection model for the cyclotron lines in the spectra of X-ray pulsars
11:45-12:05  Roberts, Mallory  Multiwavelength studies of the black widow and redback population
12:05-12:30  Kuiper, Lucien  The soft gamma-ray pulsar population and its link to the Fermi LAT pulsar population: a full high-energy picture

Thursday, Session 4: Cooling of isolated and accreting neutron stars
13:30-14:15  Shternin, Peter  Neutron star cooling theory
14:15-14:40  Kaminker, Alexander  Modeling thermal structure of magnetars: heating versus cooling
14:40-15:05  Suleimanov, Valery  Carbon atmosphere models for neutron stars
15:05-15:30  Kylafis, Nick  Accreting magnetars
15:30-16:00  Coffee break

Thursday, Session 5: Magnetars
16:00-16:45  Watts, Anna  Magnetar bursts
16:45-17:30  Parfrey, Kyle  Magnetospheric models of magnetar flares
17:30-18:15  Levin, Yuri  Magnetar seismology and the physics of neutron-star interiors
**FRIDAY, 12 July 2013, location: Logi2**

**Friday, Session 6: Superfluidity, glitches and timing noise**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>11:45-12:25</td>
<td>Gusakov, Michael</td>
<td>Baryon superfluidity and neutron-star dynamics</td>
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<tr>
<td>12:25-12:45</td>
<td>Kantor, Elena</td>
<td>New instability windows and evolution scenario for rotating neutron stars in LMXBs</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>Petri, Jerome</td>
<td>The force-free neutron star magnetosphere linked to its wind</td>
</tr>
<tr>
<td>13:00-13:15</td>
<td>Yakovlev, Dmitry</td>
<td>Self-similarity relations for cooling superfluid neutron stars</td>
</tr>
</tbody>
</table>

**Posters:**

1) Cerri, Danjela  
   Noise Strength Estimates of magnetars AXP 4U 0142+61, Swift J1822.3-1606, SGR J1833-0832 and Swift J1834.9-0846

2) Kantor, Elena  
   Thermal g-modes in superfluid neutron stars
Symposium S10 - The co-evolution of Black Holes and Galaxies

WEDNESDAY, 10 July 2013, location: Logomo

14:15-14:20 Welcome

Scaling relations from low to high z (I)
14:20-14:50 Kelly Denney (I) Measuring the Masses of Supermassive Black Holes: Methods, Challenges, and Recent Advances
14:50-15:20 Roberto Decarli (I) An observational outlook on massive black holes and host galaxies
15:20-15:35 Ronald Läsker Is the MBH-Lbulge relation really fundamental?
15:35-15:50 Manuel Arca-Sedda Compact Massive Objects in galaxies: the sequence from massive black holes to Nuclear Star Clusters
15:50-16:15 Coffee break
16:15-16:30 Sean McGee The strong environmental dependence of black hole scaling relations
16:30-16:45 Martín López-Corredoira Non-evolution of the dependence of black hole masses on bolometric luminosities for QSOs
16:45-17:15 Yohan Dubois (I) AGN feedback in hydro cosmological simulations
17:15-17:30 Colin DeGraf Supermassive black hole growth at z>4.75 in cosmological hydrodynamic simulations
17:30-17:45 Takamitsu Tanaka Cosmic warming: global self-regulation of the growth of massive black holes in the early Universe

THURSDAY, 11 July 2013, location: Logomo

Scaling relations from low to high z (II)
11:00-11:30 Francesco Shankar (I) Local Scaling Relation of Super-Massive Black Holes: Origin, Evolution, Consequences
11:30-11:45 Laura Portinari Co-evolution of Black Holes and Galaxies : The role of observational biases

Properties of AGN host galaxies
11:45-12:15 Vivienne Wild (I) Timing the starburst-AGN connection
12:15-12:30 Raffaella Morganti Cold gas in the life of radio sources: status and future perspectives
12:30-13:30 Lunch
13:30-14:00 Marcella Brusa (I) The host galaxies properties of z~2 obscured AGN: evidence for AGN feedback and outflows
14:00-14:15 Viola Allevato Occupation of X-ray selected Galaxy Groups by X-ray AGN in COSMOS
14:15-14:30 Antonio Hernán-Caballero Stellar populations and star formation rates of X-rays selected AGN at z~1
14:30-14:45 Maurilio Pannella Star formation in the host galaxies of AGN up to z ≈ 3
14:45-15:15 Pierluigi Monaco (I) The many manifestations of AGN feedback: is the galaxy/BH relation a result of self-regulation?
15:15-15:30 Yetli Rosas Guevara The key role of angular momentum
15:30-16:00 Coffee break
16:00-16:20 Peter Johansson Equal and Unequal-mass mergers of galaxies with thermal and kinetic feedback from black holes
16:20-16:40 Claudia Cicone   Revealing the AGN Feedback through Broad Wings of CO Emission Lines
16:40 -17:00 Julia Scharwächter  Accretion, feedback, and gas excitation in nearby AGN host galaxies
17:00-17:20 Jari Kotilainen     The host galaxies of low-redshift quasars in the SDSS Stripe 82
17:20-17:40 Kalle Karhunen   Properties of the quasar environments in the nearby Universe
17:40-18:00 Malcolm Bremer  The environments of z~5 QSOs

Concluding remarks: Perspectives and future directions
18:00-18:30 Knud Jahnke (I)  Co-evolution: Do black holes actually matter for galaxy evolution?

Posters:
1) Bhaskar Agarwal  A new class of obese black hole galaxies at z>6
2) Almudena Alonso-Herrero Exploring the dusty environs of Active Galactic Nuclei: dusty tori and nuclear star formation
3) Christian Boily  Orbital resonances and anisotropy around a massive central black hole
4) Margherita Bonzini Host galaxy properties of radio selected AGN
5) Ing-Guey Jiang The Dynamics near Centers of Galaxies with Supermassive Binary Black Holes
6) Kenneth Kellermann Radio Sources, Quasars, AGN, and Star Formation
7) Ece Kilerci Eser  Simultaneous SEDs of Nearby Seyferts
8) Anthea King  AGN as standardizable candles and the importance of high redshift standard candles for cosmological constraints
9) Yutaka Komiya Black hole mass dependence of the scale length of cross-correlation between AGNs and galaxies
10) Dennis Kügler  Analyzing the first optically selected BL Lac sample
11) Alla Miroshnichenko The testing of the unified model for sources with steep radio spectrum
12) Yuriko Saito  Investigating the SMBH to spheroidal stellar mass ratio in z~3 QSOs using the Subaru Telescope
13) Philip Taylor A Novel Approach to the Seeding of Black Holes in Cosmological Simulations
14) Irina Vavilova  Estimation of central black hole's masses of the isolated 2MIG AGNs of the Northern hemisphere
15) Beatriz Villarroel AGN in duet with their neighbours: who plays the viola?
16) Long Wang The Link Between Ejected Stars And Eccentricity Growth of Super Massive Black Holes In Galactic Nuclei
Symposium S11 - GREAT Science Symposium
Gaia Research for European Astronomy Training: GREAT Network Science

THURSDAY, 11 July 2013, location: Logi3

Thursday, Session 1: Gaia & GREAT Missions and Project Updates and Status – Chair: Karri Muinonen
11.00-11.10 Nicholas Walton Welcome
11.10-11.40 Timo Prus Gaia-ESA: Gaia Status and News
12.10-12.30 Nicholas Walton Gaia-GREAT: Status and News
12.30-13.30 Lunch

Thursday, Session 2: GREAT Surveys and Instruments: 4MOST / MOONS / WEAVE and Gaia-ESO – Chair: Nicholas Walton
13:55-14:20 Michele Cirasuolo MOONS: a new multi-object spectrograph for the VLT
14:20-14:45 Olivier Schnurr The 4MOST Facility
14:45-15:10 Antonella Vallenari Open clusters in the Gaia ESO survey
15:10-15:25 Tristan Cantat Open clusters as tracers of the external disk
15:25-15:30 MEETING PHOTO (Outside conference building main entrance)
15:30-16:00 Coffee break

Thursday, Session 3: Gaia/GREAT Surveys: Gaia-ESO Survey – Chair: Timo Prus
16:00-16:15 Ronny Blomme Massive stars in the Gaia-ESO Survey
16:15-16:30 Lovro Palaversa Exploring the Variable Sky with LINEAR
16:30-16:45 Andreas Just Chemodynamical evolution of the extended solar neighbourhood
16:45-17:00 Kobayashi Chiaki Stellar populations in disks and bulge in chemodynamical simulations

Thursday, Session 4: Gaia and The Solar System – Chair: Karri Muinonen
17:00-17:15 Paolo Tanga The Solar System as seen by Gaia
17:15-17:25 Mikael Granvik Detecting temporarily-captured natural Earth satellites with Gaia
17:25-17:40 Alberto Cellino Asteroid taxonomy from Gaia observations
17:40-17:50 Antti Penttila Simulation method for realistic asteroid spectra for Gaia
17:50-18:05 Dagmara Oszkiewicz Lowell photometric and astrometric databases as precursors to Gaia
18:05-18:15 Josef Durech Reconstructing asteroid shapes from sparse-in-time photometry
18:15-18:25 Olli Wilkman Effects of scattering laws on asteroid lightcurves and astrometry
18:25-18:35 Karri Muinonen Asteroid lightcurve inversion using virtual-observation MCMC methods

FRIDAY, 12 July 2013, location: Logi3

Friday, Session 5: Gaia: Milky Way Stars and Structure – Chair: Antonella Vallenari
11:45-12:00 Alessandro Sozzetti Gaia as a tool for exoplanet detection and characterization in the Solar neighborhood of the Milky Way
12:00-12:15 Paul McMillan Determining the Galactic potential with Gaia
12:15-12:30 Maria Anna Czekaj The Besançon Galaxy Model renewed - Constraints on the Galactic thin disc evolution from Tycho data
12:30-12:45  Martin Lopez Corredoira  Canis Major overdensity and Monoceros ring explained in terms of pure Milky Way structure
12:45-13:00  Matthew Molloy  Kinematic signatures in the outskirts of barred discs
13:00-13:15  Alberto Nardin  Towards a simple approximation of the local phase space distribution function
13:15-14:30  Lunch

Friday, Session 6: Gaia: Data and Data Access– Chair: Anthony Brown
14:30-14:55  Xavier Luri  The Gaia Data System (CU9)
14:55-15:15  Pedro Osuna  The ESA Gaia Data Archive
15:15-15:30  Mary Kontizas  Extragalactic Gaia data
15:30-15:50  Gaia Data: Discussion
15:50-16:00  Nicholas Walton  S11: Closing Remarks

Posters:
1) Lola Balaguer-Nunez  Physical parameters from Stromgren photometry of NGC6705
2) Dimitris Mavrikis  Near Infrared Study of Galactic Open Clusters with Carbon Stars Projected in their Radius for the ESO-GAIA Project
3) Grigori Fedorets  Period and shape determination for the slowly rotating Hungaria asteroid (39420)
4) Hanna Pentikainen  Asteroid initial orbital inversion in the Gaia space mission
5) Nadia Kaltcheva  Structure of the second Galactic quadrant based on homogeneous distances of O and B type stars
6) Vadim Bobylev  The Kinematics of the Galaxy from Data on Young Massive Stars
7) Gulberk Cisem Boz  The interacting binary system OO Aql.
8) Stefan Schmeja  From embedded to open clusters: structure and mass segregation
9) Carme Jordi  Gaia photometry for White Dwarfs
Symposium S12 - The Gamma-Ray Sky in the Era of Fermi and Cherenkov Telescopes

THURSDAY, 11 July 2013, location: Move1

Thursday, Session 1: Pulsars and PWNe
11:00-11:30  Guillemtot, Lucas  Gamma-ray pulsars as seen with the Fermi LAT
11:30-11:45  Petri, Jerome  An unified polar cap/striped wind model for pulsed radio and gamma-ray emission in pulsars
11:45-12:15  de Ona, Emma  Pulsar Wind Nebulae at VHE gamma-rays
12:15-12:30  Nilsson, Kari  Multiwavelength monitoring of the Crab Nebula

Thursday, Session 2: PWNe, SNR and binaries
13:30-14:00  Renaud, Matthieu  Supernova remnants in the CTA era
14:00-14:15  Gelfand, Joseph  Modeling the Dynamical and Broadband Spectral Properties of a Pulsar Wind Nebula inside a Supernova Remnant
14:15-14:30  Mehault, Jeremie  SNRs interacting with molecular clouds as seen with H.E.S.S. and Fermi-LAT
14:30-14:45  Pivato, Giovanna  The Fermi LAT and WMAP view of particle acceleration in supernova remnant HB21
14:45-15:15  Hill, Adam  Binary systems as seen by Fermi-LAT
15:15-15:30  Zdziarski, Andrzej  High-energy gamma-ray emission from Cyg X-1

Thursday, Session 3: Diffuse emission, starforming regions
16:00-16:30  Johannesson, Gudlaugur  Interstellar Galactic gamma-ray emission
16:30-16:45  Middendorf, Lukas  Search for ultra-high energy photons at the Pierre Auger Observatory
16:45-17:00  Munar-Adrover, Pere  Searching for gamma ray emission in massive star-forming regions

Thursday, Session 4: Gamma-ray observations of blazars
17:00-17:30  Tosti, Gino  The Fermi Large Area Telescope gamma-ray sky
17:30-17:45  Ciprini, Stefano  Gamma-ray flaring activity from the gravitationally lensed blazar PKS 1830-211 observed by Fermi LAT
17:45-18:00  Wagner, Robert  Systematic Studies of the TeV Blazar Sample
18:00-18:15  Lindfors, Elina  VHE gamma-ray emission from the Flat Spectrum radio quasars
**FRIDAY, 12 July 2013, location: Move1**

**Friday, Session 5: Multi-wavelength observations of blazars**

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<tr>
<th>Time</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:45-12:15</td>
<td>Hovatta, Talvikki</td>
<td>Observational View on AGN</td>
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<tr>
<td>12:15-12:30</td>
<td>Larsson, Stefan</td>
<td>The Fermi-LAT view of blazar variability and multiwavelength</td>
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<td>correlations</td>
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<td>12:30-12:45</td>
<td>Orienti, Monica</td>
<td>On the connection between radio and gamma rays. Variability and</td>
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<td>polarization properties in relativistic jets</td>
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<td>12:45-13:00</td>
<td>Savolainen, Tuomas</td>
<td>Coordinated VLBA and Multi-waveband Monitoring of the</td>
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<td>Gamma-ray Quasars 3C273 and 3C279</td>
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<td>13:00-13:15</td>
<td>Reinthal, Riho</td>
<td>Optically triggered Very High Energy gamma-ray observations by</td>
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<td>the MAGIC telescopes</td>
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**Friday, Session 6: Modelling and Theory**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:30-15:00</td>
<td>Böttcher, Markus</td>
<td>Modeling and Theory of Gamma-Ray Emitting Blazars</td>
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<tr>
<td>15:00-15:15</td>
<td>Stern, Boris</td>
<td>Stacked Fermi/LAT spectra of blazars confirm stable GeV breaks and</td>
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<td>the location of the gamma-ray emission zone within the broad-line</td>
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<td>region</td>
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<td>15:15-15:30</td>
<td>Sun, Shangyu</td>
<td>A Day-by-day Characterization of the Temporal Evolution of the</td>
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<td>Broadband SED of the TeV Blazar Mrk 421 during Flaring Activity in</td>
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<td>March 2010</td>
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<td>15:30-15:45</td>
<td>Janiuk, Agnieszka</td>
<td>Quasi-star jets as unidentified gamma ray sources</td>
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<tr>
<td>15:45-16:00</td>
<td>Niedzwiecki, Andrzej</td>
<td>Gamma-ray emission from black hole accretion flows</td>
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**Friday, Session 7: Non-blazar AGN and Extragalactic Background Light**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>16:30-17:00</td>
<td>Reimer, Anita</td>
<td>Extragalactic gamma-ray emitting source populations and EBL</td>
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<tr>
<td>17:00-17:15</td>
<td>Furniss, Amy</td>
<td>The Gamma-ray Spectrum of the Most Distant TeV-Emitting Blazar</td>
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<td>PKS 1424+240</td>
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<tr>
<td>17:15-17:30</td>
<td>D'Ammando, Filippo</td>
<td>Gamma-ray emitting Narrow-Line Seyfert 1 galaxies. New discoveries</td>
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<td>and open questions</td>
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<td>17:30-17:45</td>
<td>Dutson, Kate</td>
<td>Gamma-ray Emission from the Brightest Cluster Galaxy NCG 1275</td>
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<td>-- A Multi wavelength Perspective</td>
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<tr>
<td>17:45-18:00</td>
<td>Caraveo, Patrizia</td>
<td>Closing remarks</td>
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</table>

**Posters**

1) Ciprini, Stefano
   Fermi interactive analysis tools and data interfaces provided by ASDC

2) Ciprini, Stefano
   Five Years of Fermi LAT Flare Advocate Activity

3) Ciprini, Stefano
   Monitor high-energy gamma-ray variability with the Fermi Large Area Telescope

4) de Ona Wilhelmi, Emma
   The PWNe population in the H.E.S.S. Galactic Plane Survey
Special Session Sp1 - Astronomy education and public outreach

MONDAY, 8 July 2013, location: Logi2

11:45-11:50 Welcome
Amateur astronomy - Scientific Impact and Public Outreach
11:50-12:10 Irina Vavilova Astronomy education and amateur astronomy in Ukraine
12:10-12:30 Areg Mickaelian Astronomy education and public outreach in Armenia
12:30-12:50 Arto Oksanen Amateur astronomy by Jyväskylän Sirius
12:50-13:10 Aki Taavitsainen Fireballs and dance of the sprites at the border of space
13:15-14:30 Lunch
14:30-14:50 Tuomo Salmi Amateur astronomy by Taurus Hill Observatory

Educational activities and School Programs
14:50-15:10 Roger Ferlet EU-HOU project - Connecting classrooms to the Milky Way
15:10-15:30 Mikko Korhonen NOT Science School
15:30-15:50 Martin George The Role of Planetariums in Astronomy Education
15:50-16:10 Magda Stavinschi Transdisciplinarity and Astronomy education
16:10-16:30 Coffee

Introduction to modern tools for science education
16:30-16:50 Joni Tammi Practical astronomy for accountants, photographers and satellite engineers - experiences with a highly-multidisciplinary astronomy course in the Aalto University
16:50-17:10 Tomas Franc Animations for Better Understanding of Tides
17:10-17:30 Elina Lindfors Current and Future Gamma-ray experiments and Astronomy Education
17:30-17:50 Rosa Doran Bringing the Future to the Hands of Students
17:50-18:00 End of session

Posters
1) Rudolf Galis On the road with telescope
2) Ladislav Hric Excursion to the Universe in frame of Slovak Astronomical Society
Special Session Sp2 – The role of modern radio observatories in black hole and jet studies

Organizers: Franco Mantovani, Tuomas Savolainen, Merja Tornikoski

MONDAY, 8 July 2013, location: Goto31

**Session 1**

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<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11:45-11:55</td>
<td>Franco Mantovani</td>
<td>The RadioNet3 Project</td>
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<tr>
<td>11:55-12:35</td>
<td>Heino Falcke - invited</td>
<td>Event Horizon Telescope</td>
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<tr>
<td>12:35-13:15</td>
<td>Andreas Eckart - invited</td>
<td>Overall view of SgrA*</td>
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<td>13:15-14:30</td>
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<td>Lunch</td>
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**Session 2**

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<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>14:30 -15:10</td>
<td>Eduardo Ros - invited</td>
<td>AGN powerful jets and SMBH accretion</td>
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<tr>
<td>15:10-15:35</td>
<td>Francesca Panessa</td>
<td>Jets in Radio-Quiet AGN</td>
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<tr>
<td>15:35-16:00</td>
<td>Lars Fuhrman</td>
<td>The F-GAMMA program: Multi-frequency monitoring of Fermi blazars with the Effelsberg 100-m, IRAM 30-m and APEX 12-m telescopes</td>
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<td>16:00-16:30</td>
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<td>Coffee Break</td>
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**Session 3**

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<th>Time</th>
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<th>Topic</th>
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<tr>
<td>16:30-16:55</td>
<td>Venkatessh Ramakrishnan</td>
<td>The mm-γ-ray connection in the blazars 1156+295</td>
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<tr>
<td>16:55-17:35</td>
<td>Mikhail Popov - invited</td>
<td>Early Science Program in RadioAstron Mission</td>
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<tr>
<td>17:35-18:00</td>
<td>Elizaveta Rastorgueva-Foi</td>
<td>AGN active-state alert system for geodetic and astrophysical VLBI observations</td>
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</table>
Special Session Sp3 - Fundamental Stellar Parameters

MONDAY, 8 July 2013, location: Logi3

11.45-11.50 Welcome

Session 1: Interferometry and Asteroseismology

11:50-12:10 Pierre Kervella (Invited)     Stellar radii and masses from long-baseline interferometry
12:10-12:30 Orlagh Creevey (Invited)     Improving fundamental parameters of stars through stellar modelling with interferometry
12:30-12:45 Kaspar von Braun (Contributed) Fundamental Stellar Parameters of Main Sequence Stars with an Eye on Exoplanets
12:45-13:00 Gerard van Belle (Contributed) The PTI Giant Star Survey
13:00-13:20 William Chaplin (Invited)     Asteroseismic estimation of fundamental stellar properties
13:20-14:30 Lunch
14:30-14:45 Pieter DeGroote (Contributed) Consistent modeling of stars
14:45-15:00 Pier Giorgio Prada Moroni (Contributed) Stellar models uncertainties and grid-based estimates of stellar parameters

Session 2: Photometric and Spectroscopic Scales

15:00-15:20 Luca Casagrande (Contributed) Fundamental stellar parameters from photometry
15:20-15:35 Juliet Datson (Contributed) Testing the temperature and metallicity scales
15:35-15:55 Andreas Korn (Invited)     Stellar parameters in the Gaia-ESO and Gaia surveys
15:55-16:10 Gregory Ruchti (Contributed) High-Precision Spectroscopy and Fundamental Parameters of Cool Stars
16:10-16:30 Coffee break
16:30-16:45 Remo Collet (Contributed) The Stagger-Grid project: a grid of 3D model stellar atmospheres for high-precision spectroscopy

Session 3: Galactic Surveys and Reddening

16:45-17:05 Tomaz Zwitter (Invited)     Galactic Spectroscopic Surveys, stellar parameters and reddening
17:05-17:20 Ralph Schönrich (Contributed) Probabilistic methods of stellar parameter determination
17:20-17:30 Bengt Gustafsson (Invited) Conference Summary
17:30-18:00 Final discussion

Posters

1) Corrado Boeche     SPACE: a new code for stellar parameters and chemical abundances estimations
2) Marcella Di Criscienzo The initial Helium content of galactic globular cluster stars
3) Natalia Drake     Chemically-peculiar low-metallicity stars BD+03 2688 and HD55496: fundamental parameters, chemical abundances and evolution states
4) João Fernandes     DY/DZ from binary stars: metallicity dependence and helium saturation
5) Leticia Ferreira    Chemical Abundance Scale in Giant and Dwarf stars
6) Anders Jorgensen    High-Precision Stellar Diameters from Coherent Integration of NPOI Data
7) Nadia Kaltcheva A precision photometry study of Galactic star-forming sites
8) O.J. Katime Santrich Giant stars in the young open cluster NGC 3114: fundamental parameters and chemical abundances
9) Fernando Pinheiro Mass inference of solar type stars: comparison between methods
10) Laura Portinari The importance of appearing right
11) M.M. Rojas Garcia Fundamental parameters and abundance patterns of a sample of debris-disks and planet-hosting stars
12) Sergey Zubarev The effective temperature and entropy production as a function of star age
13) Sergey Zubarev Homogenized HR diagram for the open cluster NGC 188
### Special Session Sp5 - Thick discs: clues for galaxy formation and evolution

**TUESDAY, 9 July 2013, location: Logi2**

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<th>Time</th>
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<th>Topic</th>
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<tbody>
<tr>
<td>11:45-12:15</td>
<td>Thomas Bensby</td>
<td>Our current understanding of the Milky Way thick disc (Invited)</td>
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<tr>
<td>12:15-12:45</td>
<td>Ralph Schönrich</td>
<td>Radial exchange and the thick disc</td>
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<tr>
<td>12:45-13:15</td>
<td>Stefano Pasetto</td>
<td>Thick disk kinematics from RAVE and the solar motion</td>
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<tr>
<td>13:15-14:30</td>
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<td>Lunch</td>
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<tr>
<td>14:30-15:00</td>
<td>Misha Haywood</td>
<td>The age structure of stellar populations in the solar vicinity</td>
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<td>15:00-15:30</td>
<td>Gerry Gilmore</td>
<td>The Galactic thick disk - open questions (Invited)</td>
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<tr>
<td>15:30-15:40</td>
<td>Chiara Battistini</td>
<td>Exploring the origin and evolution of Iron peak elements in the Galactic Disk (Poster)</td>
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<tr>
<td>15:40-15:50</td>
<td>Nadia Kaltcheva</td>
<td>Open-cluster populations in Scutum (Poster)</td>
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<tr>
<td>16:00-16:30</td>
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<td>Coffee Break</td>
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<tr>
<td>16:30-17:00</td>
<td>Sébastien Comerón</td>
<td>The origin of thick discs</td>
</tr>
<tr>
<td>17:00-17:30</td>
<td>Chris Brook</td>
<td>Cosmological Simulations of Thick Discs (Invited)</td>
</tr>
</tbody>
</table>

#### Posters

1. **Chiara Battistini**
   Exploring the origin and evolution of Iron peak elements in the Galactic Disk

2. **Nadia Kaltcheva**
   Open-cluster populations in Scutum
Special Session Sp6 - AGN, galaxy mergers, supermassive binary black holes and gravitational waves

TUESDAY, 9 July 2013, location: Logi3

**Tuesday, Session 1**
14:30-14:50  Carole Mundell (review)  The Nuclei of Galaxies
14:50-15:05  Norbert Schartel  XMM-Newton highlights on AGNs
15:05-15:20  Raffaella Morganti  The role of radio jets in gas outflows and negative feedback
15:20-15:35  Beatriz Villarroel  AGN in duet with their neighbours: who plays the viola?
15:35-15:50  Peter Berczik  Black Holes in Galactic Nuclei simulated with up to 700k GPU cores

**Tuesday, Session 2**
16:30-16:50  Fabrizio Tavecchio (review)  High-energy phenomena in blazars
16:50-17:10  Lars Fuhrmann (review)  Blazar variability: results from the F-GAMMA radio monitoring program
17:10-17:25  Martín López-Corredoira  Kinetic power of quasars from MOJAVE superluminal motions
17:25-17:40  Joerg Rachen  Long-term variability of extragalactic radio sources
17:40-17:55  David Jauncey  Inter-stellar scintillation in the strong, flat-spectrum radio source B0059+581

WEDNESDAY, 10 July 2013, location: Logi3

**Wednesday, Session 3**
14:15-14:35  Almudena Alonso-Herrero (review)  Using IR bright galaxies to explore the relation between star formation activity and black hole growth in galaxies
14:35-14:55  Luka Popovic (review)  AGN pairs and supermassive binary BHs: constraints from emission lines
14:55-15:10  Yoshiaki Taniguchi  A merger-driven unified model for triggering active galactic nuclei and a new insight on the co-evolution between supermassive black holes and galaxies
15:10-15:25  Areg Mickaelian  Interacting/merging pairs and multiples and the interrelationship between starburst, nuclear activity and interactions/merging phenomena
15:25-15:40  Yohai Meiron  The kinematic signature of the inspiral phase of massive binary black holes

**Wednesday, Session 4**
16:15-16:30  Mauri Valtonen (review)  A helical jet in the binary black hole system OJ287
16:30-16:45  Staszek Zola (review)  Optical variability of OJ287 at different time scales
16:45-17:00  Stefano Ciprini (review)  Radio-optical, Swift and XMM-Newton observations of OJ 287
17:00-17:15  Takamitsu Tanaka  Recurring flares from supermassive black hole binaries: implications for tidal disruption candidates and OJ 287
17:15-17:30  Edward Porter (review)  eLISA: Revealing the gravitational universe
17:30-17:45  Sambaran Banerjee  Dark Star Clusters" and their implications on gravitational

**Posters**
1) Oksman, Miika  Numerical modelling of AGN jets using novel C++11 implementation of smoothed-particle magnetohydrodynamics
2) Tomás, Laura  The X-ray population in eight pairs of interacting galaxies
3) Pizzella, Alessandro  IC 5181, an S0 galaxy with ionized gas on polar orbits
Special Session Sp7 - Science with present and future interferometric instruments

WEDNESDAY, 10 July 2013, location: Move1

Wednesday, Block 1
14:15-14:45  O. Chesneau  Stellar astrophysics: science with interferometry during the last decade
14:45-15:00  P. Garcia, M. Benisty, C. Dougados, F. Bacciotti, J.-M. Clauss, F. Massi, A. Mérand, R. Petrov and G. Weigelt  Pre-main-sequence binaries with tidally disrupted discs
15:00-15:15  R. Oudmaijer, W.-J. de Wit, H. Wheelwright  Unravelling the circumstellar material of massive evolved stars: OIR interferometry of Yellow Hypergiants and B[e] Supergiants
15:15-15:30  P. Kervella, A. Mérand, A. Gallenne, J. Breitfelder  Cepheid science with long-baseline interferometry: distances and stellar physics
15:30-15:45  J. Groh  Dissecting the supermassive star Eta Carinae with interferometry

Wednesday, Block 2
16:15-16:45  O. Pfuhl  Scientific prospects and technical challenges with GRAVITY
16:45-17:15  S. Kraus  Exploring the signatures of planet formation with multi-wavelength interferometry
17:15-17:30  S. Hönig  The dusty heart of AGN revealed by IR interferometry
17:30-17:45  G. van Belle, D. Hutter and J. T. Armstrong  The Navy Precision Optical Interferometer: Status and Future Prospects

THURSDAY, 11 July 2013, location: Goto33

Thursday, Block 3
11:00-11:30  J.-P. Berger  The VLTI today, tomorrow and in the future: a pragmatic road towards optical interferometry’s enhanced scientific output
11:30-12:00  D. Mourard  A roadmap for interferometry in Europe
12:00-12:30  General discussion

Posters
1) A. Bajkova  Phase Retrieval Problem: application to VLBI Mapping of Active Galactic Nuclei
2) D. Buscher, M. Creech-Eakman, C. A. Haniff and J. S. Young  Science Drivers and Technical Feasibility in the Conceptual Design of the Magdalena Ridge Observatory Interferometer
3) D. Dravins  Science with present and future interferometric instruments
4) Y. Hafez  OP/NIR astronomical observations at 36.6°E 28.5°N, 36.4°E 26.3°N and 41.7°E 27.5°N by
Special Session Sp8 - Galactic molecular clouds and their chemistry

**WEDNESDAY, 10 July 2013, location: Goto31**

14:15-14:50 Gösta Gahm  
Circulation of matter in star forming regions  (invited)  
14:50-15:25 Michiel Hogerheijde  
Modeling the chemistry of interstellar clouds  (invited)  
15:25-15:45 Gisela Esplugues  
Sulphur chemistry in Orion KL  
15:45-16:15 Coffee break  
16:15-16:40 Laurent Pagani  
DCO+ observations of a dark cloud: tracing the CO depletion  (invited)  
16:40-17:05 Charlotte Vastel  
Water and deuterated species in star forming regions  (invited)  
17:05-17:25 Igor Zinchenko  
Dense cores and outflows in the S255 area of high mass star formation  
17:25-17:45 Miikka Väisälä  
High resolution ammonia mapping of the candidate First Hydrostatic Core object Chamaeleon-MMS1

**THURSDAY, 11 July 2013, location: Goto31**

11:00-11:30 Wolf Geppert  
Formation of complex organic molecules in space  (invited)  
11:30-11:50 Antonios Makrymallis  
Formation and Evolution of Interstellar Dust-Grain Ices  
11:50-12:10 Jorma Harju  
Observations and models of the evolution of prestellar cores  
12:10-12:30 Mika Juvela  
Mika On the temperature of pre-stellar cores

**Posters**

1) Lubimov, Viktor  
X-factor in a prestellar cloud  
2) Shmeld, Ivar  
Deuterium diffusion and enrichment in interstellar ices
Special Session Sp9 - Stellar dynamics and celestial mechanics in modern astrophysics

PIs: Rainer Spurzem, Seppo Mikkola
SOC: Douglas Heggie, Roberto Capuzzo-Dolcetta, Simon Portegies Zwart, Tal Alexander, Torsten Boeker, Mirek Giersz

Wednesday, 10 July 2013, location: Goto32

Wednesday, Session 1

14:15-14:45  Mikkola, Seppo  A review of regularization methods for the few-body problem
14:45-15:05  Feng, Fabo  The history of comet impacts modulated by the solar motion
15:05-15:25  Jiang, Ing-Guey  On the Formation and Dynamical Evolution of Ring Galaxies
15:25-15:45  Bekdaulet, Shukirgaliyev Capturing stars into massive black holes via accretion disks

Wednesday, Session 2

16:15-16:45  Capuzzo-Dolcetta, Roberto Nuclear Star Clusters formation
16:45-17:05  Spera, Mario An application of High Performance GPU computing to understanding the process of violent mass segregation in star clusters.
17:25-17:45  Just, Andreas On the dissolution of open star clusters

Thursday, 11 July 2013, location: Goto32

Thursday, Session 3

11:00-11:30  Spurzem, Rainer Fokker-Planck and Monte Carlo - past and future
11:30-11:50  Meiron, Yohai New parallel gravity integrator
11:50-12:10  Banerjee, Sambaran Did the R136 and NGC 3603 young star clusters form through single starbursts?
12:10-12:30  Boily, Christian Self-selection of binaries in compact young clusters & association

Posters

1) Tsai, Maxwell Xu  Planetary System in Star Clusters
2) Ulubay Siddiki, Ayse Simulations of the Young Stellar Disks at the Galactic Center
3) Yeh, Li-Chin The Existence of Equilibrium Points of Galactic Systems with Binary Black Holes
Special Session Sp10 - Chemo-dynamical galaxy evolution

FRIDAY, 12 July 2013, location: Logomo

11:45-11:50  Gerhard Hensler + SOC  Welcome
11:50-12:15  Tadas Mineikis  Models of late type galaxy evolution: 1-D versus 2-D
12:15-12:45  Chiaki Kobayashi  Chemodynamical Simulations and Galactic Archaeology
12:45-13:15  Ralph Schönrich  Radial migration and flows in chemo-dynamic models
13:15-14:30  Lunch
14:30-15:00  Stefano Pasetto  Chemo-dynamical modelling techniques for our Galaxy and its dwarf companions: from the theory of orbits to the synthesis of stellar populations.
15:00-15:30  Lei Liu  A Multi-Phase Chemodynamical N-Body/SPH Code of Galaxy Evolution
15:30-16:00  Pierluigi Monaco  A multi-phase particle integrator for the formation of galaxies
16:00-16:30  Coffee Break
16:30-16:55  Paolo Mazzei  The Spiral - S0s transition in galaxy groups
16:55-17:25  Maria Cebrián  No traces of environmental effects in void galaxies
17:25-17:55  Gerhard Hensler  Star-Formation Recipes and Self-Regulation in Chemo-dynamical Models of Galaxy Formation and Evolution
17:55-18:00  Gerhard Hensler + SOC  Concluding Remarks

Posters
1) Mazzei, Paola  The Spiral - S0s transition in galaxy groups
2) Mineikis, Tadas  Models of late type galaxy evolution: 1-D versus 2-D
3) Mitchell, Nigel  Collisionless stellar hydrodynamics as an efficient alternative to N-body methods
4) Ploeckinger, Sylvia  The survival of tidal dwarf galaxies
5) Recchi, Simone  The fate of heavy elements in dwarf galaxies - the role of mass and geometry
## Special Session Sp11 - Rocks in our solar system

**FRIDAY, 12 July 2013, location: Goto31**

### Session 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter, Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45-12:00</td>
<td>Vinnikov, Vladimir</td>
<td>Statistical Study of Fragments Distribution for Košice Meteorite</td>
</tr>
<tr>
<td>12:00-12:15</td>
<td>Kletetschka, Gunther</td>
<td>Chebarkul event as part of the Chelyabinsk event</td>
</tr>
<tr>
<td>12:15-12:30</td>
<td>Gritsevich, Maria</td>
<td>Estimation of trajectory and orbital parameters of Chelyabinsk bolide</td>
</tr>
<tr>
<td>12:30-12:45</td>
<td>Kohout, Tomas</td>
<td>Physical properties of Chelyabinsk meteorites - implications on parent body</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>Pentikäinen, Hanna</td>
<td>Meteorite spectral measurements in Vis-NIR with related analysis</td>
</tr>
<tr>
<td>13:00-13:15</td>
<td>Heinselman, Craig</td>
<td>EISCAT_3D: a new tool for solid body research</td>
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<td>13:15-14:30</td>
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### Session 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter, Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30-14:45</td>
<td>Gritsevich, Maria</td>
<td>Meteorite-producing Fireballs: uncovering secrets of the Solar System</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>Virtanen, Jenni</td>
<td>StreakDet data processing and analysis pipeline for space debris</td>
</tr>
<tr>
<td>15:00-16:00</td>
<td></td>
<td>Joint visit to poster hall, short poster presentations, 5 min each, will be given by presenters.</td>
</tr>
<tr>
<td>16:00-16:30</td>
<td></td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

### Posters

1) de Almeida, Amaury  Spectroscopic Study of Comet 9P/Tempel 1
2) Godunova, Vira     Monitoring of near earth objects at the Terskol observatory
3) Gritsevich, Maria  Physical properties of meteoroids based on radar measurements
4) Grokhovsky, Victor The structure and fragmentation of Chelyabinsk meteorite
5) Hoffmann, Viktor   More on the fascinating Almahata Sitta story
6) Lyytinen, Esko     Estimates for velocity and deceleration of the largest Chelyabinsk fragments and conclusions for the impact sites
7) Rudawska, Regina   Call for observation of asteroid 2012~FZ23 and its association with delta Chamaeleontids (IAU\#107)
Special Session Sp12 - A fresh look at the stellar Initial Mass Function

THURSDAY, 11 July 2013, location: Goto33

16:00-16:30  P. Kroupa  IMF variations at the lowest and highest masses
16:30-16:45  C. Weidner  The IGIMF in dwarf late-type to massive early-type galaxies
16:45-17:00  R. Läsker  Bottom-heavy initial mass function in a nearby compact L* galaxy
17:00-17:15  R. Smith  ESO325–G004: A massive elliptical galaxy with a lightweight IMF
17:15-17:30  C. Spiniello  The XLENS Project: Do more massive early-type galaxies have more internal dark matter or a steeper IMF?
17:30-17:45  C. Tortora  Is the initial mass function universal?
17:45-18:00  N. Podorvanyuk  The new estimates of the Initial Mass Function in compact stellar systems
18:00-18:15  D. Chulkov  Testing the mass distribution of binaries from the magnitude difference of visual binary stars
18:15-18:20  M. Orsi  Using synthetic spectra to construct population synthesis models for IMF studies
18:20-18:25  Ph. de Meulenaer  Metallicity effects on the derivation of age, mass, and extinction of unresolved star clusters

FRIDAY, 12 July 2013, location: Move2

11:45-12:15  M. Cappellari  Constrained the IMF via galaxy mass determinations
12:15-12:30  F. La Barbera  Systematic variation of the stellar IMF of early-type galaxies from a variety of spectral features
12:30-12:45  I. Martin-Navarro  Radial IMF variation in early-type galaxies
12:45-13:00  A. Ferré-Mateu  Baby elliptical galaxies or non-universal IMF slopes?
13:00-13:15  L.A. Díaz-García  Stellar populations and the initial mass function of early-type galaxies in ALHAMBRA
13:15-14:30  Lunch
14:30-15:00  R. Schiavon  Constraining the low-mass end of the IMF of galaxies from integrated light spectroscopy
15:00-15:15  A. Vazdekis  MILES stellar population synthesis models with varying IMF and abundance ratio
15:15-15:30  C. Bertelli Motta  New insights into the non-universality of the IMF
15:30-16:00  Discussion

Posters

1) M. Orsi  Using synthetic spectra to construct population synthesis models for IMF studies
2) Ph. de Meulenaer  Metallicity effects on the derivation of age, mass, and extinction of unresolved star clusters
Special Session Sp13 - Starburst galaxies now and then with ALMA

FRIDAY, 12 July 2013, location: Logi1

11:45-11:55 Opening words

Local starbursts, feedback, regulation, merger-induced star formation
11:55-12:35 Padelis Papadopoulos The state and mass of the molecular gas in starburst galaxies: observations and theory in the age of ALMA (invited)
12:35-12:55 Petri Väisänen Tracing the history of starbursts in LIRGs
12:55-13:15 Serena Viti Chemical modelling of starburst galaxies
13:15-14:30 Lunch
14:30-15:10 Santiago Garcia-Burillo Star Formation Laws in Extreme Starbursts (invited)
15:10-15:20 Discussion: low-z

Star formation at high z
15:20-16:00 Jacqueline Hodge High-z star formation as traced by molecular gas and dust (invited)
16:00-16:30 Coffee break
16:30-16:50 Maurilio Pannella Starburst galaxies in the ALMA era
16:50-17:10 Malcolm Bremer The FIR properties of Lyman break galaxies at z~3 and above
17:10-17:30 Roberto Decarli The forbidden side of the high-redshift universe
17:30-17:50 Elisabete da Cunha The effect of the Cosmic Microwave Background in high-redshift (sub)millimeter observations
17:50-18:00 Discussion: high-z
Special Session Sp14 - LOFT, the large observatory for X-ray timing

FRIDAY, 12 July 2013, location: Goto33

Session 1: The LOFT mission - chair A. Watts
11:45-12.25 M. Feroci (IAPS) Status of the LOFT mission
12:25-12:55 M. van der Klis (UVA) Overview of the LOFT Science
12.55-13.15 J. Wilms (ECAP) LOFT Observatory Science
13:15-14:30 Lunch

Session 2: Presentations of LOFT Core Science: Dense Matter and Strong Field Gravity - chair: M. van der Klis
14:30-14:50 A. Watts (UVA) LOFT and the neutron star equation of state
14:50-15:10 J. Poutanen (Univ. Oulu, invited) Modeling pulse profiles of accreting millisecond pulsars and X-ray bursts
15:10-15:30 A. De Rosa (IAPS, invited) Variability as a probe of the central engine in AGNs: the LOFT perspectives
15:30-15:50 A. Ingram (UVA, invited) Using LOFT to uncover the QPO mechanism in X-ray binaries
15:50-16:05 A. Patruno (UVA) Discovery of New Accreting Millisecond Pulsars with LOFT
16:05-16:30 Coffee Break
16:30-16:50 P. Uttley (UVA, invited) Mapping the extreme: X-ray reverberation with LOFT

Session 3: LOFT as Observatory - chair: J. Wilms
16:50-17:10 A. Tramacere (ISDC, invited) Constraining the physics of acceleration and radiation processes in the relativistic jets of Blazars with LOFT
17:10-17:25 R. Walter (ISDC) Tidal disruptions at hard X-rays and LOFT forecasts
17:25-17:40 L. Amati (INAF) GRB science with LOFT
17:40-18:00 Open discussion

Poster
1) S. Balman Timing and spectral characteristics of Dwarf Novae with LOFT
# ASTRONET “Town Meeting”:
## Mid-Term Review of Science Vision and Infrastructure Roadmap

**FRIDAY, 12 July 2013**

18:30  Buffet dinner for registered participants (location: Restaurant Logomo Kitchen)

**SATURDAY, 13 July 2013, location: Logomo**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:05</td>
<td>D. Mourard</td>
<td>Welcome and overview</td>
</tr>
<tr>
<td>9:05-9:50</td>
<td>I. Robson</td>
<td>Science Vision and Infrastructure Roadmap: Summary and update</td>
</tr>
<tr>
<td>9:50-10:30</td>
<td>Chair: D. Mourard</td>
<td>Discussion: What has changed at the forefront of astronomy? What is happening on the Big Projects?</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Coffee</td>
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</tr>
<tr>
<td>11:00-11:20</td>
<td>S. Katsanevas</td>
<td>Progress in organising astroparticle physics</td>
</tr>
<tr>
<td>11:20-11:35</td>
<td>C. Vincent</td>
<td>Post-ASTRONET coordination in European astronomy</td>
</tr>
<tr>
<td>11:35-11:50</td>
<td>M. Collados</td>
<td>Updated planning for European Solar physics</td>
</tr>
<tr>
<td>11:50-12:30</td>
<td>Chair: R. Stark</td>
<td>Discussion: Where should we be in 2020++? Are we on the right track with the preparations?</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>12:00-14:20</td>
<td>R. Wijers</td>
<td>Review of current radio telescopes (lambda &gt; 3 mm)</td>
</tr>
<tr>
<td>14:00-14:50</td>
<td>Chair: J. Andersen</td>
<td>Discussion: Future of the mid-size facilities: Gaps? Field(s)? Wavelength coverage? Other?</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee</td>
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<tr>
<td>16:00-16:15</td>
<td>R. Stark</td>
<td>Other ASTRONET initiatives to implement the Roadmap</td>
</tr>
<tr>
<td>16:15-16:35</td>
<td>J.-G. Cuby</td>
<td>What progress is needed in training and recruitment?</td>
</tr>
<tr>
<td>16:35-16:55</td>
<td>J. Palouš</td>
<td>What more needs to be done to include all of Europe?</td>
</tr>
<tr>
<td>17:00-17:50</td>
<td>Chair: M. Bode</td>
<td>Panel discussion with all speakers</td>
</tr>
<tr>
<td>17:50-18:00</td>
<td>D. Mourard</td>
<td>Conclusions and way forward</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td>Informal get-together</td>
<td></td>
</tr>
</tbody>
</table>

## Posters

1) Bode, Michael  
Liverpool Telescope 2  

2) Cenarro, A. Javier  
The Observatorio Astrofisico de Javalambre (I): a New Astronomical Facility for Large Sky Surveys  

3) Cenarro, A. Javier  
The Observatorio Astrofisico de Javalambre (II): The Javalambre Survey Telescope and J-PAS  

4) Cenarro, A. Javier  
The Observatorio Astrofisico de Javalambre (III): The Javalambre Auxiliary Survey Telescope and J-PLUS  

5) Davies, John  
The OPTICON Common TAC for Transnational Access to Medium Sized Telescopes.  

6) Godunova, Vira  
Observations of NEOs as a task for small and medium-sized telescopes  

7) Gritsevich, Maria  
EuropaNet – Coordinating Europe’s Planetary Science Community towards Horizon2020 and Beyond  

8) Jesus, Aceituno  
Strategic projection of the Calar Alto Observatory.  

9) Mickaelian, Areg  
Integration of the Byurakan Astrophysical Observatory (BAO) in the European astronomy  

10) Miroshnichenko, Alla  
Peculiarities of sources with low-frequency steepness radio spectrum  

11) Montoya, Luz María  
Telescopes and Instrumentation at Calar Alto observatory  

12) Roy, Rupak  
Usage of world-wide facilities in transient observations  

13) Vinnikov, Vladimir  
Trajectory and orbital parameters estimation for Chelyabinsk Bolide
Special Meeting SM5 - GREAT Special Meeting

WEDNESDAY, 10 July 2013, location: Goto33

**GREAT Open Session/ GREAT Meeting Reports**

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>16:15-16:25</td>
<td>Nicholas Walton</td>
<td>Welcome and GREAT Programme News</td>
</tr>
<tr>
<td>16:55-17:10</td>
<td>Piercarlo Bonifacio</td>
<td>Conference Report: First Results from the Gaia-ESO Survey, Nice, F, Apr 2013</td>
</tr>
<tr>
<td>17:25-17:35</td>
<td>Alessandro Sozzetti</td>
<td>Workshop Report: Gaia and Exoplanets: GREAT Synergies on the Horizon, Nov 2012, Torino, Italy</td>
</tr>
<tr>
<td>17:35-17:45</td>
<td>Francisco Garzon Lopez</td>
<td>School Announcement: The Galaxy, Stellar Composition and Dynamics, Tenerife, Sep 2013, IAC, Tenerife, E, Sep 2012</td>
</tr>
</tbody>
</table>
Venues

1 EWASS meeting venue LOGOMO
   Address: Köydenpunojankatu 14 (the suggested walking route from the city centre marked on the map in green colour)

2 Radisson Blu Marina Palace Hotel - registration on Sunday 7 July at 16.30-19.00
   Address: Linnankatu 32

3 VPK:n talo - Get-together party
   Address: Eskelinkatu 5

4 Restaurant Koulu - Congress dinner
   Address: Eerikinkatu 18

5 Turku Cathedral - departure point for Academic walk and Walking tour of the Old Great Square.

6 Departure point steamship UkkoPekka: Dinner and Cruise to Loistokari island

7 Sokos Hotel Hamburger Börs, address: Kauppiaskatu 6.
   additional departure point for Tuorla observatory and Sauna party excursions (buses leave from LOGOMO at 19.00 and from this stop at 19.10)

8 Bus stop, bus no 61 to Logomo

9 Bus stop, bus no 20 to Logomo

Stations

S1 Main railway station
S2 Bus station
S3 Kupittaa railway station
S4 Harbour