EWASS 2013

Turku, Finland 8–12 July 2013

www.astro.utu.fi/EWASS2013

Programme

PROGRAMME AT A GLANCE

Room locations are marked in orange

MON	9:00 – 9:45	Opening Ceremony Logomo
	9:45 – 10:30	Plenary Talk 1 Logomo
	10:30 – 11:00	Coffee Break
	11:00 – 11:45	Plenary Talk 2: SpPt7 Grote Reber Prize Lecture Logomo
	11:45 – 13:15	Parallel Sessions: S1 Goto33,S2 Logomo,S3 Logi1,S4 Move1,S5 Move2, Sp1 Logi2, Sp2 Goto31, Sp3 Logi3
	13:15 – 14:30	Lunch
	14:30 – 16:00	Parallel Sessions: S1 Goto33,S2 Logomo,S3 Logi1,S4 Move1,S5 Move2, Sp1 Logi2, Sp2 Goto31, Sp3 Logi3
	16:00 – 16:30	Coffee Break
	16:30 – 18:00	Parallel Sessions: S1 Goto33,S2 Logomo,S3 Logi1,S4 Move1,S5 Move2, Sp1 Logi2, Sp2 Goto31, Sp3 Logi3
TUE	9:00 – 9:45	Plenary Talk 3: SpPt1 Tycho Brahe Prize Lecture Logomo, SM6 Goto30
	9:45 – 10:30	Plenary Talk 4 Logomo, SM6 Goto30
	10:30 – 11:00	Coffee Break
	11:00 – 11:45	Plenary Talk 5 Logomo
	11:45 – 13:15	Parallel Sessions: S1 Goto33, S2 Logomo,S3 Logi1, S4 Move1, S5 Move2, Sp4 Goto31, Sp5 Logi2, SM1 Goto32
	13:15 – 14:30	Lunch, SM2 Goto30
	14:30 – 16:00	Parallel Sessions: S1 Goto33, S2 Logomo,S3 Logi1, S4 Move1, S5 Move2, Sp4 Goto31, Sp5 Logi2, Sp6 Logi3
	16:00 – 16:30	Coffee Break
	16:30 – 18:00	Parallel Sessions: S1 Goto33, S2 Logomo,S3 Logi1, S4 Move1, S5 Move2, Sp4 Goto31, Sp5 Logi2, Sp6, Logi3 SM8 Goto32
	18:00 – 18:30	European Research Council funding opportunities, Logi2
WED	9:00 – 10:30	Plenary Talk 6: SpPt2 Merac prize Lectures (3x30 min) Logomo, SM6 Goto30, SM9 Goto32, SM7 Goto33
	10:30 – 11:00	Coffee Break
	11:00 – 11:45	Plenary Talk 7 Logomo, SM6 Goto30, SM9 Goto32, SM7 Goto33
	11:45 – 13:15	Plenary session: SpPt6 EAS General Assembly Logomo, SM9 Goto32, SM7 Goto33
	13:15 – 14:15	Lunch
	14:15 – 15:45	Parallel Sessions: S7 Logi1, S8 Move2, S9 Logi2, S10 Logomo, Sp6 Logi3, Sp7 Move1, Sp8 Goto31, Sp9 Goto32
	15:45 – 16:15	Coffee Break
	16:15 – 17:45	Parallel Sessions: S7 Logi1, S8 Move2, S9 Logi2,S10 Logomo, Sp6 Logi3, Sp7 Move1, Sp8 Goto31, Sp9 Goto32 SM5 Goto33
	19:00 – 23:00	Conference Dinner
THU	9:00 – 9:45	Plenary Talk 8: SpPt3 Lodewijk Woltjer Prize Lecture Logomo, SM7 Goto33
	9:45 – 10:30	Plenary Talk 9 Logomo, SM7 Goto33
	10:30 – 11:00	Coffee Break
	11:00 – 12:30	Parallel Sessions: S7 Logi1,S8 Move2, S9 Logi2, S10 Logomo, S11 Logi3, S12 Move1, Sp7 Goto33, Sp8 Goto31, Sp9 Goto32
	12:30 – 13:30	Lunch
	13:30 – 15:30	Parallel Sessions: S7 Logi1, S8 Move2, S9 Logi2, S10 Logomo, S11 Logi3, S12 Move1, SM3 Goto30
	15:30 – 16:00	Coffee Break
	16:00 – 18:30	Parallel Sessions: S7 Logi1, S8 Move2, S9 Logi2, S10 Logomo, S11 Logi3, S12 Move1, Sp12 Goto33
FRI	9:00 – 9:45	Plenary Talk 10: SpPt4 Plenary Talk on ESA Logomo
	9:45 – 10:30	Plenary Talk 11: SpPt5 Plenary Talk on ESO Logomo
	10:30 – 11:00	Coffee Break
	11:00 – 11:45	Plenary Talk 12 Logomo
	11:45 – 13:15	Parallel Sessions: S9 Logi2, S11 Logi3,S12 Move1, Sp10 Logomo, Sp11 Goto31, Sp12 Move2, Sp13 Logi1, Sp14 Goto33
	13:15 – 14:30	Lunch
	14:30 – 16:00	Parallel Sessions: S11 Logi3,S12 Move1, Sp10 Logomo, Sp11 Goto31, Sp12 Move2, Sp13 Logi1, Sp14 Goto33
	16:00 – 16:30	Coffee Break
	16:30 – 18:00	Parallel Sessions: S12 Move1, Sp10 Logomo, Sp13 Logi1, Sp14 Goto33
SAT	9:00 – 19:00	SM4: Plenary discussion on the ASTRONET Mid-Term Review Logomo

Congress MAP can be found in the inside of the back cover.

WELCOME

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
Elina 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.*

GENERAL INFORMATION

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: logomopublic
Password: loGOmo2012

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
15:05-15:20	U. Ganse	Influence of Beam Particles' Pitch-Angle Distribution on Wave Generation in Solar Type II Radio Bursts
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)
3) I. Dorotovic	Variations of EUV Emission of the Solar Corona in the Range of 26 – 34 nm (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

11:45-12:30	Malzac, Julien	Broad-band spectroscopy: from radio to gamma-rays
12:30-12:45	Koljonen, Karri	Interpreting the spectral evolution of GX 339-4 through the hardness-intensity diagram
12:45-13:00	Neustroev, Vitaly	Far-ultraviolet and optical spectroscopy of the black hole candidate SWIFT J1753.5-0127
13:00-13:15	Linares, Manuel	Luminosity-hardness correlation in accreting neutron stars

Monday, Session 2: Fast variability – Chair: Phil Uttley

14:30-15:15	Revnivtsev, Mikhail	X-ray variability of compact objects as a tool of accretion physics
15:15-15:30	Heil, Lucy	Power colours: comparing power spectra without fitting
15:30-15:45	Petri, Jerome	Constraining the mass and moment of inertia of neutron stars from quasi-periodic oscillations in X-ray binaries
15:45-16:00	Balman, Solen	On the X-ray variability and inner disk structure of dwarf novae

Monday, Session 3: Black holes on all scales – Chair: Michiel van der Klis

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

TUESDAY, 9 July 2013, location: Logomo

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

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

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

14:30-15:00	Poutanen, Juri	Hot accretion discs in black hole binaries
15:00-15:20	Kolehmainen, Mari	The disc inner radius in the low/hard state of black hole binaries
15:20-15:40	Koliopanos, Filippos	X-ray diagnostics of chemical composition of the accretion disk and donor star in ultra-compact X-ray binaries
15:40-16:00	Zaw, Ingyin	Testing alpha-disk accretion model in the inner-most parsec of AGN with water masers

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

11:45-12:20	Andrew Jaffe	Cosmic Microwave Background cosmology (Invited review talk)
12:25-12:45	Matti Savelainen	Planck constraints on primordial Isocurvature perturbations
12:50-13:10	Ophélia Fabre	Constraints on variation of fundamental constants
13:15-14:30		Lunch

Monday, Block 2: Cosmic Microwave Background cosmology II

14:30-15:05	Hannu Kurki-Suonio	Cosmic Microwave Background cosmology (Invited review talk)
15:10-15:30	Elina Keihänen	Beam deconvolution and search of variable sources in Planck LFI maps
15:35-15:55	Martin López-Corredoira	Peaks in the CMBR power spectrum: Physical interpretation for any cosmological scenario
16:00-16:30		Coffee

Monday, Block 2: continues

16:30-16:50	Anna Mangilli	The CMB non-Gaussianity as seen by Planck

Monday, Block 3: Extragalactic sources

16:55-17:30	Anne Lähteenmäki	Extragalactic radio source science with Planck data (Invited review talk)
17:30-18:00	Bruce Patridge	Planck ability to measure unresolved sources (Invited talk)

TUESDAY, 9 July 2013, location: Logi1

Tuesday, Block 4: Galactic astrophysics

11:45-12:20	Richard Davis	Galactic Science with the Planck spacecraft (Invited review talk)
12:25-12:45	Alves Marta	Dust emission at Planck millimetre wavelengths in the Galactic plane
12:50-13:10	Dana Alina	The Planck Dust Polarization Sky
13:15-14:30		Lunch

Tuesday, Block 4: continues

14:30-14:45	Richard Davis	Diffuse Galactic components in the Gould Belt System

Tuesday, Block 5: Clusters and Secondary Anisotropies

14:50-15:25	Juan Francisco Macias-Perez	Measuring the thermal Sunyaev-Zeldovich (tSZ) with Planck (Invited review)
15:30-15:50	Isabel, Suarez-Velasquez	The signature of the Warm Hot Intergalactic Medium in WMAP and PLANCK data
16:00-16:30		Coffee

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	Testing the minor merger scenario: stellar population analysis of the outskirts of nearby massive galaxies"
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
13:15-14:30	Lunch	
14:30-14:45	Anna Ferre-Mateu	The mysterious properties of local compact massive galaxies: not what we expected

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		Coffee break
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 Cl 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
15:50-16:05	Rhea-Silvia Remus	The Dark Halo -- Spheroid Conspiracy and the Origin of Elliptical Galaxies
16:05-16:30		Coffee break
16:30-16:50	Ewald Puchwein	The formation and evolution of central cluster and group galaxies (IH)
16:50-17:10	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) laria 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	Hydrodinamical 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

12:50-13:05	B. Lanzoni	Terzan 5: the remnant of a pristine fragment of the Galactic Bulge?
13:05-13:20	S. Feltzing	The chemical evolution of the Galactic Bulge seen through micro-lensing events
13:20-14:30		Lunch

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. Nykytyuk	A chemical evolution of Local dwarf galaxies : LeoI
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 Ceti 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	Nättilä, 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

11:45-12:25	Gusakov, Michael	Baryon superfluidity and neutron-star dynamics
12:25-12:45	Kantor, Elena	New instability windows and evolution scenario for rotating neutron stars in LMXBs
12:45-13:00	Petri, Jerome	The force-free neutron star magnetosphere linked to its wind
13:00-13:15	Yakovlev, Dmitry	Self-similarity relations for cooling superfluid neutron stars

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 Prusti	Gaia-ESA: Gaia Status and News
11.40-12.10	Anthony Brown	Gaia-DPAC: Status and News (Data Processing & Analysis Consortium)
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

13:30-13:55	Gavin Dalton	WEAVE: A new wide-field multi-object spectrograph for the William Herschel Telescope
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 Prusti

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	Martín 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 starst
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	Guillemot, 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

11:45-12:15	Hovatta, Talvikki	Observational View on AGN
12:15-12:30	Larsson, Stefan	The Fermi-LAT view of blazar variability and multiwavelength correlations
12:30-12:45	Orienti, Monica	On the connection between radio and gamma rays. Variability and polarization properties in relativistic jets
12:45-13:00	Savolainen, Tuomas	Coordinated VLBA and Multi-waveband Monitoring of the Gamma-ray Quasars 3C273 and 3C279
13:00-13:15	Reinthal, Riho	Optically triggered Very High Energy gamma-ray observations by the MAGIC telescopes

Friday, Session 6: Modelling and Theory

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

Friday, Session 7: Non-blazar AGN and Extragalactic Background Light

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

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 Tele scope
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

11:45-11:55	Franco Mantovani	The RadioNet3 Project
11:55-12:35	Heino Falcke - invited	Event Horizon Telescope
12:35-13:15	Andreas Eckart - invited	Overall view of SgrA*
13:15-14:30		Lunch

Session 2

14:30 -15:10	Eduardo Ros - invited	AGN powerful jets and SMBH accretion
15:10-15:35	Francesca Panessa	Jets in Radio-Quiet AGN
15:35-16:00	Lars Fuhrrman	The F-GAMMA program: Multi-frequency monitoring of Fermi blazars with the Effelsberg 100-m, IRAM 30-m and APEX 12-m telescopes
16:00-16:30		Coffee Break

Session 3

16:30-16:55	Venkatessh Ramakrishnan	The mm-γ-ray connection in the blazars 1156+295
16:55-17:35	Mikhail Popov - invited	Early Science Program in RadioAstron Mission
17:35-18:00	Elizaveta Rastorgueva-Foi	AGN active-state alert system for geodetic and astrophysical VLBI observations

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

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

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. Clausse, 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
5) A. M. Jorgensen, H. R. Schmitt, D. Mozurkewich, G. T. van Belle, E. K. Baines, J. T. Armstrong and D. J. Hutter Prospects for Unprecedented Imaging of Stellar Surfaces with the NPOI

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.
17:05-17:25	Berczik, Peter	Galactic Star Cluster mass evolution. High performance star by star simulations.
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

11:45-12:00	Vinnikov, Vladimir	Statistical Study of Fragments Distribution for Košice Meteorite
12:00-12:15	Kletetschka, Gunther	Chebarkul event as part of the Chelyabinsk event
12:15-12:30	Gritsevich, Maria	Estimation of trajectory and orbital parameters of Chelyabinsk bolide
12:30-12:45	Kohout, Tomas	Physical properties of Chelyabinsk meteorites - implications on parent body
12:45-13:00	Pentikäinen, Hanna	Meteorite spectral measurements in Vis-NIR with related analysis
13:00-13:15	Heinselman, Craig	EISCAT_3D: a new tool for solid body research
13:15-14:30		Lunch

Session 2

14:30-14:45	Gritsevich, Maria	Meteorite-producing Fireballs: uncovering secrets of the Solar System
14:45-15:00	Virtanen, Jenni	StreakDet data processing and analysis pipeline for space debris
15:00-16:00		Joint visit to poster hall, short poster presentations, 5 min each, will be given by presenters.
16:00-16:30		Coffee break

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	Constraining 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. Martín-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

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

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 Tele scope 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	Europlanet – 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

16:15-16:25	Nicholas Walton	Welcome and GREAT Programme News
16:25-16:40	Francisco Garzon Lopez	School Report: The art of the Observational Campaigns, IAC, Tenerife, E, Sep 2012
16:40-16:55	Luis Manuel Sarro	School Report: GREAT Astrostatistics School, Alicante, Jun 2013
16:55-17:10	Piercarlo Bonifacio	Conference Report: First Results from the Gaia-ESO Survey, Nice, F, Apr 2013
17:10-17:25	Andreas Korn	Workshop Report: Stellar analyses in the Gaia-ESO Survey: towards the first Data Release, AIP, Potsdam, D, Sep 2012
17:25-17:35	Alessandro Sozzetti	Workshop Report: Gaia and Exoplanets: GREAT Synergies on the Horizon, Nov 2012, Torino, Italy
17:35-17:45	Francisco Garzon Lopez	School Announcement: The Galaxy, Stellar Composition and Dynamics, Tenerife, Sep 2013, IAC, Tenerife, E, Sep 2012

NOTES

NOTES

EWASS 2013
Turku, 8-12 June 2013

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

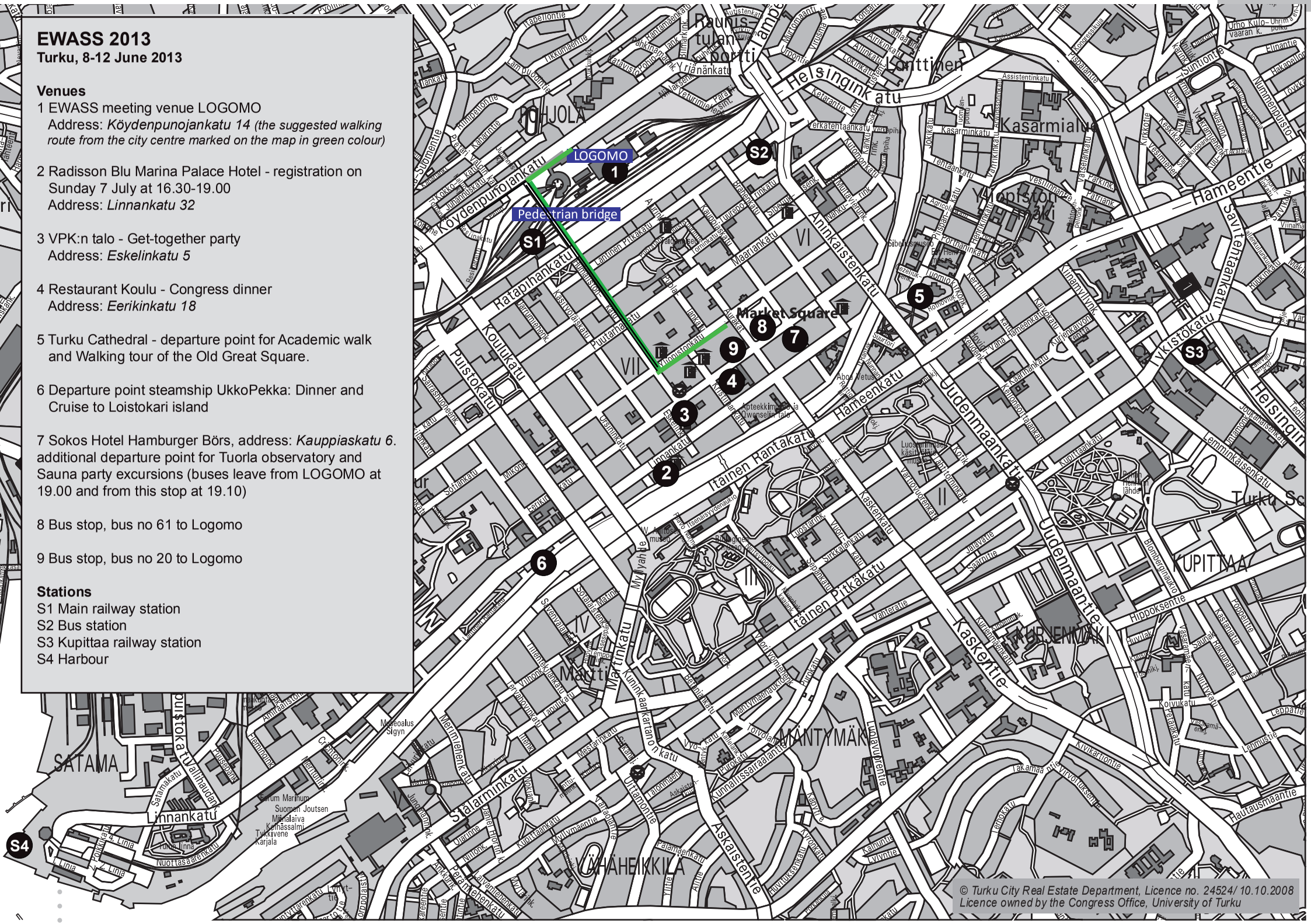
7 Sokos Hotel Hamburger Börs, address: *Kauppiaskatu 6*. additional departure point for Tuorla observatory and Sauna party excursions (buses leave from LOGOMO at 19.00 and from this stop at 19.10)

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




LO
GO
MO
LOGI 3 Hall
LOGI Lobby
LOGI 1 Hall
LOGI 2 Hall
Workshop facilities and office space for creative industries
GOTO 35
GOTO 22
GOTO 21
GOTO 33
GOTO 32
GOTO 31
GOTO 30
LOGOMO Hall 1
GOTO 23
LOGOMO Hall 2
Reception Area
Workshop facilities and office space for creative industries
WC
MOVE 1 Hall
MOVE 2 Hall
Catering Kitchen
KITCHEN
Restaurant Kitchen
Restaurant
LOGOMO KITCHEN
Ground Floor
Middle Floor
Top Floor