

Post-Meeting Report

IAU Symposium 321 Formation and evolution of galaxy outskirts Toledo (Spain), March 14-18th 2016-04-06

1. Meeting number: IAU Symposium 321
2. Meeting title: "Formation and evolution of galaxy outskirts"
3. Coordinating division: J (Galaxies and Cosmology)
4. Dedication of meeting: None
5. Location: Toledo (Spain)
6. Dates of meeting: March 14-18th 2016
7. Number of participants: 210
8. List of represented countries:

Argentina	Finland	Portugal
Armenia	France	Russia
Australia	Germany	South Africa
Austria	Greece	South Korea
Brazil	India	Spain
Canada	Israel	Sweden
Chile	Italy	Switzerland
China	Japan	United Kingdom
Denmark	Mexico	United States
Ecuador	Netherlands	Vietnam
Estonia	Poland	

9. Report submitted by: Armando Gil de Paz (Universidad Complutense de Madrid, Spain) – Symposium chairperson, SOC chair and LOC co-chair (jointly with Ainhoa Sánchez Penim; Universidad Complutense de Madrid).
10. Date and place: April 8th 2016
11. Signature of SOC Chairperson:



The following documents should be attached:

- i Final Scientific Program
- ii List of participants
- iii List of recipients of IAU Grants, including amount and country
- iv Receipts signed by the recipients of IAU Grants (This does not apply to Scientific Meetings held during General Assemblies)
- v Brief report (text.txt file or word.doc) to the Executive Committee on the scientific highlights of the meeting (1-2 pages)



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



MONDAY March 14th, 2016

08:00-09:00	Registration
09:00-09:30	Opening ceremony

Resolved Stellar Populations in galaxy outskirts (I) – The Milky Way (chair: Lia Athanassoula)

09:30-09:50	Invited: Outskirts of the Milky Way (Francesca Figueras, University of Barcelona)
09:50-10:05	Extended Structure of the Milky Way (Carl Grillmair, California Institute of Technology)
10:05-10:20	The radial extent and scale-length of the Galactic thick disk (Thomas Bensby, Lund Observatory)
10:20-10:35	The age-kinematical features in the Milky Way outer disk (Chao Liu, Chinese Academy of Sciences)
10:35-10:50	Chemical Abundances of Seven Outer Halo M31 Globular Clusters from the Pan-Andromeda Archaeological Survey (Charli Sakari, University of Washington)
10:50-11:05	Vertical displacement of the Milky Way disk (Heidi Newberg, Rensselaer Polytechnic Institute)

Coffee break

Resolved Stellar Populations in galaxy outskirts (II) – Local Group and beyond (chair: Roberto Abraham)

11:30-12:00	Review: Resolved Stellar Populations in the outskirts on external galaxies (Annette Ferguson, University of Edinburgh)
12:00-12:15	The dynamics of Andromeda's dwarf galaxies and stellar streams (Michelle Collins, University of Surrey)
12:15-12:30	The nature and origin of substructure in the outskirts of the Andromeda galaxy (Edouard Bernard, Observatoire de la Côte d'Azur)
12:30-12:45	Stellar populations in the outskirts of M31: the mid-infrared view (Pauline Barmby, Western University)
12:45-13:00	GHOSTS (Roelof de Jong, Leibniz-Institut für Astrophysik Potsdam)
13:00-13:15	Resolving the extended stellar halos of nearby galaxies: the wide-field PISCeS survey (Denija Crnojevic, Texas Tech University)
13:15-13:30	Resolved Stellar Populations of the interacting galaxies of the M81 group (Sakurako Okamoto, Shanghai Astronomical Observatory)

Lunch (reconvene at 15:00)

Resolved Stellar Populations in galaxy outskirts (II) – Local Group and beyond (cont.)

15:00-15:15	Outskirts of Local Group Dwarf Galaxies Revealed by Subaru Hyper Suprime-Cam (Yutaka Komiyama, National Astronomical Observatory of Japan)
15:15-15:30	A wide-area chemo-dynamical survey of individual stars in a transforming dwarf galaxy (Giuseppina Battaglia, Instituto de Astrofísica de Canarias)

Resolved Stellar Populations in galaxy outskirts (III) – Star Formation & IMF (chair: Gerhard Hensler)

15:30-15:45	Star-formation efficiency in the outer Galaxy (Natsuko Izumi, University of Tokyo)
15:45-16:00	The spatially-resolved study of initial mass function in the outer Galaxy (Chikako Yasui, University of Tokyo)
16:00-16:15	A Deeper Look at Faint H α Emission in the Outskirts of Dwarf Galaxies (Janice Lee, Space Telescope Science Institute)
16:15-16:30	Not Even Wrong: An Historical, Philosophical and Ultimately a Scientific Inquiry into the Schmidt Law (Barry Madore, Carnegie Observatories)

16:30-17:15 **Round table on "Resolved Stellar Populations", with F. Figueras, R. M. Rich, A. Ferguson, D. Thilker (chair)**

Coffee and posters on display, DAGAL fellows presentations

21:00-Welcome cocktail at Mercado de San Agustín (see map in conference webpage)



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



TUESDAY March 15th, 2016

Modeling the outskirts of galaxies (I): Cosmological simulations of accretion (chair: Patricia Sánchez-Blázquez)

09:00-09:30	Review: Probing the baryon cycle in galaxy outskirts (Romeel Davé, University of Western Cape)
09:30-09:50	Invited: EAGLE project (Joop Schaye, Leiden Observatory)
09:50-10:05	Circumgalactic Precipitation (Mark Voit, Michigan State University)
10:05-10:20	Models of the outskirts of galaxies in a cosmological context (Andrew Cooper, University of Durham)
10:20-10:35	Cosmic distribution of gas and its connection with galaxies (Alireza Rahmati, University of Zürich)
10:35-10:50	Hot gas in Milky Way size galaxies at $z=0$ (Santi Roca-Fàbrega, Hebrew University of Jerusalem)

Coffee break

Modeling the outskirts of galaxies (I): Cosmological simulations of accretion (cont.)

11:30-11:45	$z\sim 6$ Metal Line Absorbers as a Probe of Galactic Feedback Models (Laura Keating, Institute of Astronomy, Cambridge)
11:45-12:00	The CARMA Project: Galaxy Formation Models Predictions on Galaxy Formation and Cosmic Flows (Fabrice Durier, Steward Observatory, University of Arizona)

Modeling the outskirts of galaxies (II) – Modeling dynamics & stellar light (chair: Ivan Minchev)

12:00-12:30	Review: Dynamical modeling of the outskirts of galaxy disks (Lia Athanassoula, Laboratoire d'astrophysique de Marseille)
12:30-12:45	Surfing the bar: The formation of anti-truncated stellar disks (Jakob Herpich, MPIA)
12:45-13:00	Spiral pattern beyond optical radius: numerical simulations and synthetic HI observations (Sergey Khoperskov, University of Milan)
13:00-13:15	A Universal Density Profile for the Outer Stellar Halos of Galaxies (Rhea-Silvia Remus, University Observatory Munich)
13:15-13:30	Formation of galaxy outskirts and origin of Sérsic profiles (Carlo Nipoti, Bologna University)

Lunch (reconvene at 15:00)

Modeling the outskirts of galaxies (II): Modeling dynamics & stellar light (cont.; chair: Victor Debattista)

15:00-15:15	Exploring the stellar halo profile – accretion history connection on statistical samples of mock haloes of L^* galaxies (Nicola C. Amorisco, MPA Garching & ITC Harvard)
15:15-15:30	What shapes stellar population profiles in the outskirts of massive, early-type galaxies? (Michaela Hirschmann, CNRS – Institute d'Astrophysique)

Modeling the outskirts of galaxies (III) – Outskirts specifics: Abundances, IMF,... (chair: Armando Gil de Paz)

15:30-15:45	Evolving Sparse Stellar Populations (Gustavo Bruzual, IRyA-UNAM)
15:45-16:00	Star formation at low rates – the impact of lacking massive stars on stellar feedback (Gerhard Hensler, University of Vienna)
16:00-16:15	Properties of the outer regions of spiral disks: abundances, colors and ages (Mercedes Mollá, CIEMAT)
16:15-16:30	What can the outskirts of galaxies tell us about dark matter? (Chris Power, ICRAR/UWA)
16:30-16:45	Finding Dwarf Galaxies From Their Tidal Imprints (Sukanya Chakrabarti, RIT)

Coffee and posters on display (reconvene at 17:15)

17:15-18:00	Round table on “Modeling galaxy outskirts”, with L. Athanassoula, R. Davé, I. Minchev, J. Schaye, V. P. Debattista, P. Sanchez-Blazquez (chair)
18:00-18:45	DAGAL fellows presentations



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



WEDNESDAY March 16th, 2016

Outskirts of Nearby Galaxies (I) – Going ultra-deep (chair: Janice Lee)

08:30-08:55	Review: Unresolved stellar halos and streams (Roberto Abraham, Dunlap Institute for Astronomy & Astrophysics)
08:55-09:15	Galaxy archeology with ultra deep imaging (Pierre-Alain Duc, AIM Paris-Saclay)
09:15-09:30	Results from the EDGES Survey (Liese van Zee, Indiana University)
09:30-09:45	The Halos and Environments of Nearby Galaxies (HERON) Survey (R. Michael Rich, UCLA)
09:45-10:00	Stellar tidal streams in the outskirts of nearby spiral galaxies (David Martínez Delgado, ARI, University Heidelberg)
10:00-10:20	Invited: Ultra-deep imaging of nearby galaxy outskirts from the ground (Ignacio Trujillo, Instituto de Astrofísica de Canarias)
10:20-10:35	Antitruncations (John Beckman, Instituto de Astrofísica de Canarias)
10:35-10:50	The origin of stellar breaks at large radii as probed by the Spitzer Survey of Stellar Structure in Galaxies (Juan Carlos Muñoz-Mateos, ESO)
10:50-11:05	Parametrizing the Stellar Halos of Galaxies (Richard D'Souza, Max Planck Institute for Astrophysics)

Coffee break

Outskirts of Nearby Galaxies (II) – Environment (chair: Johan Knapen)

11:30-12:00	Review: Outskirts of ETGs (Reynier Peletier, Kapteyn Astronomical Institute – University of Groningen)
12:00-12:15	Invited: The SLUGGS project (Duncan Forbes, Swinburne University of Technology)
12:15-12:30	Deconstructing the assembly histories and measuring the total masses of halos using discrete tracers (Jean Brodie, UC Observatories)
12:30-12:45	Stellar Populations of Close Companions and Intracluster Light around Local Brightest Cluster Galaxies (Louise Edwards, Yale University)
12:45-13:00	Kinematics and stellar populations of NGC 3311, the cD galaxy in the center of the Hydra I cluster (Claudia Mendes de Oliveira, University of Sao Paulo)
13:00-13:15	Rethinking the Narrative of a Micro-Merger: Tidal Debris with On-Going Star Formation (Rachael Beaton, Carnegie Observatories)
13:15-13:30	The missing satellite problem outside of the Local Group (Masayuki Tanaka, National Astronomical Observatory of Japan)
13:30-13:45	Mass and orbital distribution of early-type galaxy haloes with the Planetary Nebula Spectrograph (Nicola Napolitano, INAF – Observatory of Capodimonte)
13:45-14:00	MESSIER: a satellite to uncover the ultra-low surface brightness universe (David Valls-Gabaud, IoA Cambridge / Observatoire de Paris)

Conference picture at 14:00

Free afternoon



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



THURSDAY March 17th, 2016

Outskirts of Nearby Galaxies (III) – Star formation & stellar populations in the outskirts (chair: David Thilker)

08:30-09:00	Review: Outskirts of spiral galaxies (Fabio Bresolin, University of Hawaii)
09:00-09:20	Invited: The MUSE Atlas of Disks (Marcella Carollo, ETH Zürich)
09:20-09:35	Studying extra-planar gas in the halos of MaNGA galaxies (Amy Jones, Max Planck Institute for Astrophysics)
09:35-09:50	GASP: Gas stripping and the outskirts of galaxies as a function of environment (Bianca Poggianti, INAF-Astronomical Observatory of Padova)
09:50-10:05	A new view of the spectacular 200 kpc-wide disk of the Malin 1 giant low surface brightness galaxy (Samuel Boissier, Laboratoire d'Astrophysique de Marseille)
10:05-10:20	Gas accretion from the cosmic web feeding disk galaxies (Jorge Sánchez-Almeida, Instituto de Astrofísica de Canarias)
10:20-10:35	Accretion phenomena in nearby starburst dwarf galaxies (Francesca Annibali, INAF-OABO/DIFA)

Outskirts of Nearby Galaxies (IV) – Rarefied ISM (chair: Jennifer Donovan Meyer)

10:35-10:50	The Connection between Molecular Gas and Star Formation in XUV Disks (Linda Watson, ESO)
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Coffee break

Outskirts of Nearby Galaxies (IV) – Rarefied ISM (cont.)

11:20-11:35	Molecular gas in the outer disks of spirals (Jonathan Braine, Lab. d'Astrophysique de Bordeaux)
11:35-11:50	Extended HI disks in nearby spiral galaxies (Albert Bosma, Lab. d'Astrophysique de Marseille)
11:50-12:05	Neutral Gas Outside the Disks of Local Group Galaxies (Felix Lockman, NRAO Green Bank)
12:05-12:20	New Perspectives on the Gaseous Halos of Local Group Galaxies (Nicolas Lehner, University of Notre Dame)
12:20-12:35	Dense Cloud Cores revealed by ALMA CO observations in the low metallicity dwarf galaxy WLM (Monica Rubio, Universidad de Chile)
12:35-12:50	The 2X-HI disks of spiral galaxies (Baerbel Koribalski, CSIRO Astronomy and Space Science)
12:50-13:05	HI in the outskirts of Nearby Spirals (Elias Brinks, University of Hertfordshire)
13:05-13:20	The frequency and properties of young tidal dwarf galaxies in nearby groups (Karen Lee-Waddell, CSIRO Astronomy and Space Science)
13:20-13:35	Disentangling the intragroup HI in Compact Groups of galaxies by means of X3D visualization (Lourdes Verdes-Montenegro, Instituto de Astrofísica de Andalucía – CSIC)

Lunch (reconvene at 15:00)

Outskirts of Nearby Galaxies (IV) – Rarefied ISM (cont.) (chair: Claudia Mendes de Oliveira)

15:00-15:15	Star formation efficiency in the outer disks of spiral galaxies (Thijs J.M. van der Hulst, Kapteyn Astronomical Institute – University of Groningen)
15:15-15:30	The Structure of Halo Gas around M33 (Olivia Keenan, Cardiff University)
15:30-15:45	What can the occult do for you? – Lessons from overlapping galaxy pairs (Benne Holwerda, Leiden Observatory)
15:45-16:00	Delving into the gas-phase of CALIFA galaxies to trace O and N abundance gradients (Enrique Pérez-Montero, Instituto de Astrofísica de Andalucía – CSIC)
16:00-16:20	Invited: Outer Disk Star Formation in HI Rich Galaxies (Gerhardt Meurer, U. of Western Australia)

Coffee and posters on display (reconvene at 16:50)

Outskirts of Distant Galaxies and Systems (I) – Galaxy growth (chair: Hsiao wen Chen)

16:50-17:20	Review: Outer regions of high-z disks (Natascha Förster Schreiber, Max-Planck-Institut für extraterrestrische Physik)
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17:20-18:20 **DAGAL fellows presentations**

Conference dinner at Cigarral Ángel Custodio. Buses leaving at 20:30 from parking (see map in webpage)



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



FRIDAY March 18th, 2016

Outskirts of Distant Galaxies and Systems (I) – Galaxy growth (cont.) (chair: Ignacio Trujillo)

08:30-08:50	Invited: The KMOS3D project (Emily Wisnioski, Max Planck Institute for Extraterrestrial Physics)
08:50-09:05	Falling outer rotation curves of star-forming galaxies at $0.6 < z < 2.6$ probed with KMOS-3D and SINS/zc-SINF (Philipp Lang, Max-Planck-Institute for Extraterrestrial Physics)
09:05-09:20	Large scale profiles of galaxies at $z=0-2$ studied by stacking the HSC SSP survey data (Mariko Kubo, The University of Tokyo – ICRR)
09:20-09:35	The outskirts of massive early-type galaxies at $z=0.65$ in the Hubble Ultra Deep Field (Fernando Buitrago, Institute of Astrophysics and Space Sciences)
09:35-09:50	The observed peripheral growth of disc galaxies from $z \sim 1$ (Dimitri Gadotti, ESO)
09:50-10:05	The buildup of the outskirts of distant star-forming galaxies at $z \sim 2$ (Sandro Tacchella, ETH Zürich)

Outskirts of Distant Galaxies and Systems (II) – Circumgalactic gas (chair: Natascha Förster-Schreiber)

10:05-10:20	Using rotation measure to search for magnetic fields around galaxies at $z \sim 0.3$ (Anna Williams, University of Wisconsin-Madison)
10:20-10:35	Local Analogs for High-redshift Galaxies: Interstellar Medium Conditions and Metallicities in High redshift Galaxies (Fuyan Bian, Australian National University)

Coffee break

Outskirts of Distant Galaxies and Systems (II) – Circumgalactic gas (cont.)

11:00-11:15	An extended Lyman- α halo at $z=3.5$ seen with MUSE (Vera Patricio, Centre de Recherche Astrophysique de Lyon)
11:15-11:30	ICL light in a $z \sim 0.5$ cluster: the MUSE perspective (J.C. Muñoz-Mateos, E. Pompei, ESO-Chile)
11:30-11:45	Outflows in low-mass galaxies at $z > 1$ (Michael Maseda, Leiden Observatory)
11:45-12:00	Outflows in $1 < z < 2$ wet mergers (Valentin Perret, Universität Zürich)
12:00-12:15	HST observations reveal the curious geometry of circumgalactic gas (Glenn Kacprzak, Swinburne University of Technology)
12:15-12:30	Gas Kinematics in the Multiphase Circumgalactic Medium (Nikki Nielsen, Swinburne University of Technology)
12:30-12:45	Hot halos around spiral galaxies: a unique probe of structure formation models (Akos Bogdan, Harvard-Smithsonian Center for Astrophysics)
12:45-13:00	Cold molecular halo gas in proto-cluster radio galaxies: assembling the outskirts of giant galaxies through cold accretion and jet-triggered cooling (Bjorn Emonts, Centro de Astrobiología – CSIC/INTA)

Lunch (reconvene at 14:30)

Outskirts of Distant Galaxies and Systems (III) – Absorbers (chair: Pablo G. Pérez-González)

14:30-15:00	Review: Understanding galaxy outskirts using DLAs (Hsiao-Wen Chen, University of Chicago)
15:00-15:20	Invited: DLAs and outskirts of galaxies (Neil Crighton, Swinburne University of Technology)
15:20-15:35	The MUSE QSO Blind Survey: A Census of Absorber Host Galaxies (Lorrie Straka, Leiden Univ.)
15:35-15:50	Dispersion in DLA metallicities and deuterium abundances (Irina Dvorkin, Institut d'Astrophysique de Paris)
15:50-16:05	The mass-metallicity relation of absorption selected high-redshift galaxies (Lise Christensen, Dark Cosmology Center, Niels Bohr Institute)
16:05-16:20	The SFR Efficiency of Atomic-dominated Hydrogen Gas in the Outskirts of Star Forming Galaxies from $z \sim 1$ to $z \sim 3$ (Marc A. Rafelski, NPP-NASA Goddard)

16:20-17:10 Posters 'pop-up' session

17:10-18:00 **Round table on “Future perspectives for Resolved, Nearby and Distant Galaxy Outskirts”, with R. Abraham, I. Trujillo, N. Förster-Schreiber, B. Madore, J. Lee, A. Gil de Paz (chair)**

18:00 Adjourn



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



POSTERS

#	First Author	Title
2	Aghaee, F.	A Study of the Distributions of Surface Brightness Profiles of Galaxies in their Central Regions
3	Aghaee, A.	Determining Metal Abundances of Distant Galaxies using Quasar Spectra
5	Aniyan, S.	Resolving the Disk-Halo Degeneracy: A look at M74
11	Barnes, P.	A New Mass Conversion Law for CO Observations
12	Barway, S.	A Spitzer Study of Pseudo-bulges in S0 Galaxies: Secular Evolution of Disks
14	Battaner, E.	Magnetic fields at the rim of spiral galaxies
15	Beasley, M.	Halo Masses of Ultra Diffuse Galaxies
21	Bird, S.	Velocity Dispersion Profile with Halo K Giant Spectra from LAMOST
22	Boardman, N.	The stellar outskirts of early-type galaxies with the Mitchell integral-field Spectrograph
25	Borlaff, A.	Why are abrupt breaks found in edge-on galaxy discs and not in the discs of face-on galaxies?
29	Bravo-Alfaro, H.	Studying the galaxies outskirts in HI and NIR: Environmental effects and galaxy evolution in nearby clusters
33	Brosch, N.	Probing the outer regions of edge-on galaxies with deep imaging
35	Buck, T.	The Plane Truth: Andromeda analog thin Planes of Satellites are not kinematical coherent structures
37	Cardiel, N.	Understanding biases when fitting disk truncations
41	Catalán Torrecilla, C.	Spatially-resolved SFR in nearby disk galaxies using IFS data
42	Cebrián, M.	How galaxies look-like beyond 31mag/arcsec ² ?
44	Chang, R.	The Evolution of Interacting Spiral Galaxy NGC 5194
47	Ciambur, B.	Finding the Hidden Features Around Galaxies
48	Cicuendez, L.	Probing the low surface brightness outskirts of Milky Way Dwarf Spheroidal Galaxies
51	Cortesi, A.	Studying the kinematics of the outskirts of lenticular galaxies: hidden signs of their formation histories
58	Diaz Tello, J.	Star Formation Activity in Balmer Break Galaxies at z
60	Duc Thong, L.	Strong limit on variation of the fine-structure constant using absorption line multiplets in the early universe
63	Dunn, J.	Investigating Environmental Trends in the Outer Visible Edges of Dwarf Irregular Galaxies
70	Erroz Ferrer, S.	H α kinematics of nearby galaxies using Fabry-Perot and IFU data
71	Falceta-Goncalves, D.	Stellar Feedback and Magnetic Fields on the Gas Loss Process of Dwarf Galaxies
74	Ferrero, S.	Redshift evolution of the Tully-Fisher relation in the EAGLE simulation
76	Filho, M.	Circumgalactic Gas in Galaxies Going Through a Gas Accretion Event
77	Florido, E.	Are "U-shape" age profiles a universal feature in spiral galaxies?
80	Foster, C.	Beyond the wall: untold tales from the outer kinematics of 25 SLUGGS early-type galaxies
81	Fouquet, S.	Modeling the kinematics and star formation history of Andromeda II by a gas-rich major merger of dwarf galaxies
83	Fu, J.	The radial profiles of gas disks in semi-analytic models of galaxy formation
85	Gajda, G.	Stripping of satellites on prograde and retrograde orbits
86	Gallego, J.	Star Formation in Low-Mass Star-Forming Galaxies at intermediate redshifts



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



#	First Author	Title
88	George, K.	Outskirts of star forming blue early-type galaxies
93	Hakopian, S.	The Details from the 3D-spectroscopy of Star-forming Galaxies
100	Hu, S.	Stellar Spiral Structures in Triaxial Dark Matter Haloes
102	Idiart, T.	The chemical enrichment of Milk Way Halo
103	Igarashi, A.	A new concept of transonic galactic outflows and its application to the Sombrero galaxy
104	Ikiz, T.	Low luminosity AGNs in the Local Universe
107	Jang, I.	Unveiling the Formation History of the Massive Elliptical Galaxy M105 through Resolved Stars
110	Kang, J.	Tracing the giant outer halo of the intriguing massive disk galaxy M104 with globular cluster systems
111	Karabal, E.	Study of the growth of massive galaxies based on their outer stellar populations
116	Kim, T.	Bar-driven secular evolution on disk galaxies: what's shaping disk galaxies?
117	Kim, M.	KMTNet Nearby Galaxy Survey
118	Kirihara, T.	Multilateral Study of the Formation of the Andromeda Giant Stellar Stream
120	Ko, Y.	Beyond the Edge of M87: Intracluster Globular Clusters in the Virgo Cluster
124	Kowalczyk, K.	Orbit anisotropy of dark matter haloes with Schwarzschild modeling
126	Kumamoto, J.	Investigation into the Origin of Age-Velocity dispersion Relation by High Resolution Simulation
128	Laurikainen, E.	Barlenses and their connection to boxy/peanut/X-shape bulges
130	Lee, M.	Chemical Evolution of Resolved Stars in the cD Galaxy M87 and its Outskirts
136	Lopez, E.	On the physics of negative signatures in velocity profiles of Galactic Nebulae
137	Lowenthal, J.	Molecular Gas in High-Redshift Sub-millimeter Galaxies
140	Martinsson, T.	Baryonic and dark matter mass distributions in disk galaxies
143	Martínez Lombilla, C.	Probing the origin of thick disks using ultra-deep images
145	Matsuo, M.	A survey of molecular clouds in the outer Galaxy with the highest spatial resolution
148	Merritt, A.	Ultra-deep observations of the stellar halos of spiral galaxies: Results from the Dragonfly Telephoto Array
150	Mieske, S.	Super-massive black holes hidden in the outskirts of galaxies
152	Minter, A.	Metallicity Limits For Smith's Cloud From OH Observations
153	Miranda, M.	Origin of the Metallicity Distribution in the Thick Disc
155	Monachesi, A.	Resolving the stellar outskirts of six Milky Way-like galaxies beyond the Local Group
156	Montes, M.	The buildup of the outskirts of massive galaxies
157	Morales, G.	Stellar Tidal Streams as Cosmological Diagnostics
158	Morokuma, K.	Search for molecular gas in XUV disk of M83
166	Nykytyuk, T.	Tracing of the chemical evolution of the massive elliptical galaxy NGC 3377 using a merger scenario
167	Okamoto, S.	Resolved Stellar Populations of the interacting galaxies of the M81 group
170	Patsis, P.	Outer spiral structure in disk galaxies
178	Preston, J.	Mapping the tidally disrupting Andromeda XXVII and its stellar stream
187	Ramirez-Moreta, P.	Asymmetries in extremely isolated galaxies. The case of CIG96
188	Rampazzo, R.	The evolution of S0s with UV bright ring: a SWIFT-UVOT study
192	Rodríguez Baras, M.	Comparison between circumnuclear and external HII regions with CALIFA data
193	Romero-Gomez, M.	Connecting interacting galaxies with manifolds



Formation and Evolution of Galaxy Outskirts



IAU Symposium 321
Toledo, Spain 14-18 March 2016



#	First Author	Title
194	Román, J.	How the galactic cirrus are affecting your observations?
195	Rousseau-Nepton, L.	Insight on Star Formation in the Outskirts of Galaxies with SITELLE
197	Ruiz-Lara, T.	No direct coupling between bending of galaxy disc stellar age and light profiles as seen from CALIFA
199	Salo, H.	Comparison of observed and simulated P/B/X/Barless galaxies
200	San Roman, I.	Exploring the spatially-resolved stellar populations of nearby galaxies with multi-filter surveys: A 2-D study of the ALHAMBRA galaxies
203	Schauer, A.	The sigma-bump in the outskirts of elliptical galaxies: a signature for Major Mergers
205	Semczuk, M.	Formation and evolution of spiral arms in galaxies orbiting a Virgo-like cluster
206	Sen, S.	Stellar Populations of Dwarf Elliptical Galaxies
208	Silchenko, O.	Outer stellar disks and starforming rings in S0 galaxies
209	Smirnova, A.	The extended ionized gas filaments in Mrk 6
210	Soto, E.	Galaxies Unveiled: Rest-frame UV Clumps at $0.5 < z < 1.5$
212	Sybiliska (Rys), A.	Real and simulated IFU observations of low-mass early-types: environmental influence probed for cluster galaxies
215	Sánchez-Martín, P.	Warped invariant manifolds in precessing galactic bar models
218	Thilker, D.	A Citizen-Science-enabled Comprehensive Search for XUV-disk Galaxies
219	Toyouchi, D.	Structure and dynamics of the Milky Way disk as revealed from the radial velocity distributions of APOGEE red clump stars
223	Urrutia-Viscarra, F.	Star formation outside the Elliptical Galaxy NGC2865
228	Venhola, A.	Fornax cluster Deep Survey (FDS): Low surface brightness structures in the center of the Fornax cluster
229	Vennik, J.	The outskirts of satellite galaxies in nearby groups of galaxies
232	Villicaña Pedraza, I.	Submillimetric study of nearby galaxies: NGC 253, NGC 4945 and Arp 220
235	Wang, J.	Revisiting the galaxy HI size-mass relation
237	Weilbacher, P.	The Outskirts of the Antennae with MUSE
241	Yildiz, M.	Recent Star Formation in the HI dominant outer regions of Early Type Galaxies
242	Yuan, F.	Galaxy close pairs in MaNGA
244	Zhang, J.	How big are stellar disks?
246	Zheng, Z.	Extended stellar population profiles of nearby disk galaxies
248	del Pino Molina, A.	What can resolved stellar populations tell us about the evolution of dSph galaxies?

Name (First and Last)	Institution	Country	Gender
Santi Roca-Fàbrega	Hebrew University of Jerusalem	Israel	M
Bogdan Ciambur	Centre for Astrophysics and Supercomputing, Swinburne University	Australia	M
Laurie Rousseau-Nepton	Université Laval, Canada	Canada	F
Tuba Ikiz	Ataturk University and Kapteyn Astronomical Institute	Netherlands	F
Roberto Rampazzo	INAF - Osservatorio Astronomico di Padova	Italy	M
Zheng Zheng	NAOC	China	M
Chao Liu	NAOC	China	M
Karen Lee-Waddell	CSIRO Astronomy and Space Science	Australia	F
Thomas Bensby	Lund Observatory	Sweden	M
Nicholas Boardman	University of St Andrews	United Kingdom	M
Jing Wang	Australia Telescope National Facility	Australia	F
Bianca Poggianti	INAF-Astronomical Observatory of Padova	Italy	F
Olivia Keenan	Cardiff University	United Kingdom	F
Santiago Ismael Ferrero	Instituto de Astronomía Teórica y Experimental (IATE)	Argentina	M
Chikako Yasui	University of Tokyo	Japan	M
Nicolas Lehner	University of Notre Dame	United States	M
Philipp Lang	Max-Planck-Institut für Extraterrestrische Physik	Germany	M
Pauline Barby	Western University, Canada	Canada	F
Neil Crighton	Centre for Astrophysics and Supercomputing, Swinburne University	Australia	M
Luis Ciuendez	Instituto de Astrofísica de Canarias	Spain	M
Jielai Zhang	University of Toronto	Canada	F
Merce Romero-Gomez	ICCUB-IEEC	Spain	F
Janet Preston	University of Surrey	United Kingdom	F
Albert Bosma	Laboratoire d'Astrophysique de Marseille	France	M
Lia Athanassoula	Laboratoire d'Astrophysique de Marseille	France	F
Fabio Bresolin	University of Hawaii	United States	M
Antonela Monachesi	Max Planck Institute for Astrophysics	Germany	F
Richard D'Souza	Max Planck Institute for Astrophysics,	Germany	M
Jaan Vennik	Tartu Observatory	Estonia	M
Sudhanshu Barway	SAAO, Cape Town, South Africa	South Africa	M
Marc Rafelski	NPP - NASA Goddard	United States	M
Mitsuhiro Matsuo	Kagoshima University/National Astronomical Observatory of Japan	Japan	M
Vera Patrício	Centre de Recherche Astrophysique de Lyon	France	F
Anna Williams	University of Wisconsin-Madison	United States	F
Samuel Boissier	Laboratoire d'Astrophysique de Marseille (LAM)	France	M
Jun Kumamoto	Astronomical Institute, Tohoku University	Japan	F
David Valls-Gabaud	IoA Cambridge / Observatoire de Paris	United Kingdom	M
Marina Rodríguez Baras	Universidad Autónoma de Madrid	Spain	F
Mercedes Mollá	CIEMAT	Spain	F
Noah Brosch	Dept. of Astrophysics, Tel Aviv University	Israel	M
Heikki Salo	Astronomy/Univ. Oulu, Finland	Finland	M
Eija Laurikainen	Astronomy group/University of Oulu	Finland	F
Aku Venhola	University of Oulu / Kapteyn Institute	Finland	M
Michael Maseda	Leiden Observatory	Netherlands	M
Sarah Bird	Shanghai Astronomical Observatory	China	F
Mercedes Filho	Instituto Astrofísica de Canarias	Spain	F
Olivia Keenan	Cardiff University	United Kingdom	F
Fuyan Bian	Australian National University	Australia	M
Pierre-Alain Duc	AIM Paris-Saclay	France	M
Duncan Forbes	Swinburne University	Australia	M
Chris Power	ICRAR/UWA	Australia	M
Sandro Tacchella	ETH Zurich	Switzerland	M
Santiago Erroz Ferrer	ETH Zurich	Switzerland	M
Mireia Montes	Yale	United States	F
Javier Román	Instituto de Astrofísica de Canarias	Spain	M
Charli Sakari	University of Washington	United States	F
John Beckman	Instituto de Astrofísica de Canarias	Spain	M
Alejandro Borlaff	IAC - Instituto de Astrofísica de Canarias	Spain	M
Sergey Khoperskov	University of Milan	Italy	M
Janice Lee	Space Telescope Science Institute	United States	F
Rachael Beaton	Carnegie Observatories	United States	F
Izaskun San Roman	CEFA	Spain	F
Barry Madore	Carnegie Observatories	United States	M
Natsuko Izumi	Institute of Astronomy, University of Tokyo	Japan	F
Linda Watson	European Southern Observatory, Chile	Chile	F
María Cebrián	Instituto de Astrofísica de Canarias (IAC)	Spain	F
Liese van Zee	Indiana University	United States	F
Elias Brinks	University of Hertfordshire	United Kingdom	M
Yutaka Komiyama	National Astronomical Observatory of Japan	Japan	M
In Sung Jang	Seoul National University	South Korea	M
Myung Gyoon Lee	Seoul National University	South Korea	M

Jisu Kang	Seoul National University	South Korea	F
Youkyung Ko	Seoul National University	South Korea	F
Koshy George	Indian Institute of Astrophysics	India	M
Jian Fu	Shanghai Astronomical Observatory	China	M
Fangting Yuan	Shanghai Astronomical Observatory, CAS	China	F
Ruixiang Chang	Shanghai Astronomical Observatory	China	M
Ignacio Trujillo	Instituto de Astrofísica de Canarias	Spain	M
Johan Knapen	Instituto de Astrofísica de Canarias	Spain	M
Pablo Ramirez-Moreta	Instituto de Astrofísica de Andalucía (IAA-CSIC)	Spain	M
Glenn Kacprzak	Swinburne University of Technology	Australia	M
Caroline Foster	Australian Astronomical Observatory	Australia	F
Lise Christensen	Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen	Denmark	F
Louise Edwards	Yale University	United States	F
Emily Wisnioski	MPE	Germany	F
Ryan Leaman	MPIA	Germany	M
Shaoran Hu	Institute of Astronomy, University of Cambridge	United Kingdom	M
Lorrie Straka	Leiden Observatory	Netherlands	F
David Thilker	The Johns Hopkins University	United States	M
Gerhardt Meurer	ICRAR / University of Western Australia	Australia	M
James Lowenthal	Smith College	United States	M
Rhea-Silvia Remus	University Observatory Munich	Germany	F
Kana Morokuma	NAOJ	Japan	F
Victor Debattista	University of Central Lancashire	United Kingdom	M
Chris Pritchett	University of Victoria	Canada	M
Fernanda Urrutia-Viscarra	U. de La Serena	Chile	F
Arianna Cortesi	IAG - USP	Brazil	F
Monica Rubio	Universidad de Chile	Chile	F
Ivan Minchev	Leibniz Institute for Astrophysics Potsdam (AIP)	Germany	M
Edouard Bernard	Observatoire de la C�te d'Azur	France	M
Sakurako Okamoto	Shanghai Astronomical Observatory	China	F
Michael Feast	UCT/SAAO	South Africa	M
Susanna Hakopian	Byurakan Astrophysical Observatory, Armenia	Armenia	F
Francesca Annibali	INAF-OABO / DIFA	Italy	F
Annette Ferguson	Institute for Astronomy, Edinburgh	United Kingdom	F
Marcin Semczuk	Nicolaus Copernicus Astronomical Centre of the Polish Academy of Sciences	Poland	M
Andr�s del Pino Molina	Nicolaus Copernicus Astronomical Center (CAMK)	Poland	M
Sylvain Fouquet	Nicolaus Copernicus Astronomical Center	Poland	M
Grzegorz Gajda	N. Copernicus Astronomical Center	Poland	M
Daisuke Toyouchi	Tohoku university	Japan	M
Gerhard Hensler	University of Vienna	Austria	M
Nikki Nielsen	Swinburne University of Technology	Australia	F
Michelle Collins	University of Surrey	United Kingdom	F
Allison Merritt	Yale University	United States	F
Panos Patsis	Research Center for Astronomy, Academy of Athens	Greece	M
Gustavo Bruzual	IRyA, UNAM	Mexico	M
Suryashree Aniyani	Australian National University	Australia	F
Tobias Buck	MPIA	Germany	M
Anthony Minter	NRAO	United States	M
Felix Lockman	NRAO Green Bank	United States	M
Agnieszka Sybilka (Rys)	ESO - Garching	Germany	F
Lourdes Verdes-Montenegro	Instituto de Astrofísica de Andalucía (CSIC)	Spain	F
Enrique P�rez	Instituto de Astrofísica de Andalucía (CSIC)	Spain	M
Steffen Mieske	European Southern Observatory	Chile	M
Isabella Trierweiler	Yale University	United States	F
Denija Crnojević	Texas Tech University	United States	F
Jean Brodie	UC Observatories	United States	F
Raymond Carlberg	University of Toronto	Canada	M
Roberto Abraham	Dunlap Institute, University of Toronto	Canada	M
Emin Karabal	ESO	Germany	M
Jorge Sanchez Almeida	Instituto de Astrofísica de Canarias	Spain	M
Emmaris Soto	CUA/GSFC	United States	F
Peter Barnes	University of Florida	United States	M
Taehyun Kim	KASI	South Korea	F
Minjin Kim	Korea Astronomy and Space Science Institute	South Korea	F
Mariko Kubo	The University of Tokyo, ICRR	Japan	F
Nicola Cristiano Amorisco	MPA Garching & ITC Harvard	Germany	M
Seyda Sen	Kapteyn Astronomical Institute	Netherlands	F
Cristina Mart�nez Lombilla	Instituto de Astrofísica de Canarias (IAC)	Spain	F
Martin Herrera Endoqui	University of Oulu	Finland	M
Asuka Igarashi	University of Tsukuba	Japan	F
Sukanya Chakrabarti	RIT	United States	F
R. Michael Rich	UCLA	United States	M

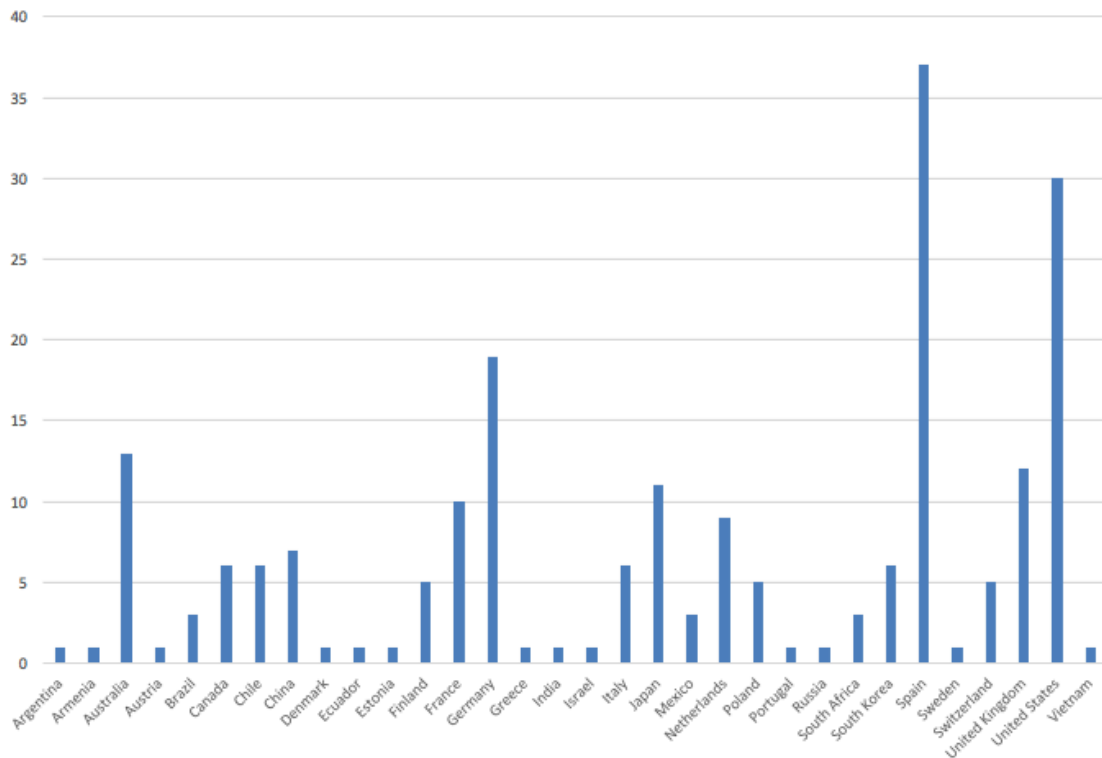
Klaudia Kowalczyk	Nicolaus Copernicus Astronomical Center	Poland	F
Takanobu Kiriwara	University of Tsukuba	Japan	M
Francesca Fragkoudi	Observatoire de Paris-Meudon	France	F
Mustafa Kursad Yildiz	Kapteyn Astronomical Institute	Netherlands	M
Athanasia Tsatsi	Max Planck Institute for Astronomy	Germany	F
Estrella Florido	Universidad de Granada	Spain	F
Eduardo Battaner	University of Granada	Spain	M
Tomás Ruiz-Lara	University of Granada	Spain	M
Giuseppina Battaglia	Instituto de Astrofísica de Canarias, Tenerife	Spain	F
Andrew Cooper	University of Durham	United Kingdom	M
Gustavo Morales	Heidelberg University	Germany	M
Dimitri Gadotti	ESO	Chile	M
Bjorn Emonts	Centro de Astrobiología (CSIC/INTA)	Spain	M
Diego Falceta-Goncalves	Universidade de Sao Paulo	Brazil	M
Jonathan Braine	Laboratoire d'Astrophysique de Bordeaux	France	M
Nicolás Cardiel	Universidad Complutense de Madrid	Spain	M
Ainhoa Sanchez Penim	Universidad Complutense de Madrid	Spain	F
África Castillo-Morales	Universidad Complutense de Madrid	Spain	F
Maidier Miranda	University of Central Lancashire	United Kingdom	F
Carlo Nipoti	Bologna University	Italy	M
Armando Gil de Paz	Universidad Complutense de Madrid	Spain	M
Carl Grillmair	California Institute of Technology	United States	M
Jorge Diaz Tello	Instituto Astronomia, Universidad Nacional Autonoma de Mexico, Mexico	Mexico	M
Jesus Gallego	Universidad Complutense de Madrid	Spain	M
Claudia Mendes de Oliveira	University of Sao Paulo	Brazil	F
Mark Voit	Michigan State University	United States	M
Alexandre Vazdekis	Instituto de Astrofísica de Canarias	Spain	M
Alexandre Bouquin	Universidad Complutense de Madrid	Spain	M
Javier Gorgas	Universidad Complutense de Madrid	Spain	M
Fabrice Durier	Steward Observatory, University of Arizona	United States	M
Francesca Figueras	University of Barcelona (IEEC-UB)	Spain	F
Simón Díaz-García	University of Oulu	Finland	M
Ericsson López	QUITO ASTRONOMICAL OBSERVATORY, ECUADOR	Ecuador	M
Sergio Pascual-Ramírez	UNIVERSIDAD COMPLUTENSE DE MADRID	Spain	M
Valentin Perret	University of Zurich	Switzerland	M
Alireza Rahmati	University of Zurich	Switzerland	M
Marc Verheijen	Kapteyn Institute	Netherlands	M
Jaime Zamorano	Universidad Complutense de Madrid	Spain	M
Patricia Sanchez-Blazquez	Universidad Autonoma de Madrid	Spain	F
Juan Carlos Munoz-Mateos	ESO	Chile	M
Hector Bravo-Alfaro	UNIVERSIDAD DE GUANAJUATO, MEXICO	Mexico	M
Romeel Dave	University of the Western Cape	South Africa	M
Peter Weilbacher	Leibniz-Institut für Astrophysik Potsdam (AIP)	Germany	M
Jakob Herpich	MPIA	Germany	M
Amy Jones	Max Planck Institute for Astrophysics	Germany	F
Baerbel Koribalski	CSIRO Astronomy and Space Science	Australia	F
Irina Dvorkin	Institut d'Astrophysique de Paris	France	F
Roelof de Jong	Leibniz-Institut fuer Astrophysik (AIP)	Germany	M
Heidi Newberg	Rensselaer Polytechnic Institute	United States	F
Carmen Marcella Carollo	ETH Zurich	Switzerland	F
Hsiao-Wen Chen	The University of Chicago	United States	F
David Martínez Delgado	ARI, University Heidelberg	Germany	M
Michaela Hirschmann	CNRS - Institute d'Astrophysique	France	F
Jacqueline Dunn	Midwestern State University	United States	F
Le Duc Thong	Department of Physics, Center for Natural Science	Vietnam	M
Cristina Catalán Torrecilla	Universidad Complutense de Madrid	Spain	F
Benne Holwerda	Leiden Observatory	Netherlands	M
Joop Schaye	Leiden Observatory	Netherlands	M
Thijs (J.M.) van der Hulst	Kapteyn Astronomical Institute, University of Groningen	Netherlands	M
Enrique Pérez-Montero	Instituto de Astrofísica de Andalucía - CSIC	Spain	M
Fernando Buitrago	Institute of Astrophysics and Space Sciences (IA)	Portugal	M
Masayuki Tanaka	National Astronomical Observatory of Japan	Japan	M
Nicola Rosario Napolitano	INAF - Observatory of Capodimonte	Italy	M
Olga Silchenko	Sternberg Astronomical Institute of the Lomonosov MSU	Russia	F
Marc Balcells	Isaac Newton Group of Telescopes	Spain	M
Akos Bogdan	Harvard-Smithsonian Center for Astrophysics	United States	M
Natascha M. Forster Schreiber	Max-Planck-Institut fuer extraterrestrische Physik	Germany	F

Family Name	First Name	Gender	Birth date	Institute of work	City of work	Country of work	e-mail address	Academic situation	Grant amount proposed by the SOC in EUR	Nature of contribution to the meeting	Additional comments
Roaer-Felberg	Samir	M	1987-05-22	Hebrew University of Jerusalem	Jerusalem	Israel	samir.roaer@mail.huji.ac.il	Postdoc	500	Contributed oral	None
Lee-Widdell	Karen	F	1984-03-31	CSIRO Astronomy and Space Science	Epping	Australia	karen.lee-widdell@csiro.au	Postdoc	700	Contributed oral	None
Nielsen	Nikki	F	1987-10-03	Swanburne University of Technology	Heathorn	Australia	nikki@nielsen@swin.edu.au	Postdoc	700	Contributed oral	None
Falcato-Gonzales	Diego	M	1979-08-27	Universidade de Sao Paulo	Sao Paulo	Brazil	dfalcato@usp.br	Staff	300	Poster	In the waiting shortlist for oral talks
Matsuo	Mitsuhito	M	1989-06-06	Kagoshima University/National Astronomical Observatory of Japan	Miraimisaki-gun	Japan	mitsuhito.matsuo@nao.ac.jp	Ph.D. student	500	Poster	None
Kang	Jisu	F	1992-03-10	Seoul National University	Seoul	South Korea	jskang@astro.sknu.ac.kr	Ph.D. student	300	Poster	None
Jang	In Sung	M	1986-11-17	Seoul National University	Seoul	South Korea	isjang@astro.sknu.ac.kr	Ph.D. student	300	Poster	None
Toyouchi	Daisuke	M	1989-11-25	Tohoku university	Aoba-ku Sendai	Japan	toyouchi@astr.tohoku.ac.jp	Ph.D. student	500	Poster	None
Igarashi	Asuka	M	1987-04-14	University of Tsukuba	Tsukuba-shi	Japan	igarashi@ccs.tsukuba.ac.jp	Ph.D. student	500	Poster	None
Ferrero	Santiago emael	M	1987-03-13	Instituto de Astronomia, Fedica y Experimental (IAFE), cordoba	cordoba	Argentina	ferrero@mae@gmail.com	Ph.D. student	1200	Poster	None
Chambur	Bogdan	M	1988-05-10	Centre for Astrophysics and Supercomputing, Swinburne University	Melbourne	Australia	bchambur@swin.edu.au	Ph.D. student	500	Poster	None
Aghaee	Faezeh	F	1986-05-04	Institute for Research in Fundamental Sciences (IPM)	Tehran	Iran	faezeh.aghaee@gmail.com	Undergrad	1400	Poster	She did not show up
LOPEZ	ERICSSON	M	1986-06-06	QUITO ASTRONOMICAL OBSERVATORY, ECUADOR	QUITO	Ecuador	ericsson.lopez@epn.edu.ec	Staff	1500	Poster	None
Zheng	Zheng	M	1982-08-22	NAOC	Beijing	China	zz@bao.ac.cn	Postdoc	1400	Poster	None
Roussseau-Napton	Laurie	F	1986-06-09	Universit Laval, Canada	Saint-Henri-de-Louis	Canada	laurie-napton.1@ulaval.ca	Ph.D. student	500	Poster	None
Anyan	Suryashree	F	1989-09-08	Australian National University	Western Creek	Australia	suryashree.anyan@anu.edu.au	Ph.D. student	500	Poster	None
George	Koshy	M	1979-03-16	Indian Institute of Astrophysics	Bangalore	India	koshy@iia.res.in	Postdoc	1500	Poster	None
Hakopian	Susanna	F	1993-08-07	Burakan Astrophysical Observatory, Armenia	Yerevan	Armenia	susanahakopian@yaho.com	Postdoc	700	Poster	None
Ko	Youkyung	F	1988-01-23	Seoul National University	Seoul	South Korea	kyko@astro.sknu.ac.kr	Ph.D. student	300	Poster	None
Yuan	Fangfeng	F	1986-03-05	Shanghai Astronomical Observatory, CAS	Shanghai	China	yuanyf@shao.ac.cn	Staff	800	Poster	None
Duc Thong	Le	M	1981-01-01	Department of Physics, Center for Natural Science	Vung Tau	Vietnam	thong@hcmimail.com	Postdoc	1500	Poster	None
Urrutia-Vicerra	Fernanda	F	1983-02-03	U de La Serena	La Serena	Chile	paurrel@gmail.com	Postdoc	500	Poster	None
Diaz Tello	Jorge	M	1981-12-03	Instituto Astronomia, Universidad Nacional Autonoma de Mexico, Mexico	Eisenrota	Mexico	jadiaz@astro.unam.mx	Postdoc	300	Poster	None
Buck	Tobias	M	1989-06-12	MPA	Heidelberg	Germany	buck@mpa.de	Ph.D. student	300	Poster	None
Preston	Janel	F	1992-10-11	University of Surrey	Guildford	United Kingdom	jpreston@surrey.ac.uk	Ph.D. student	300	Poster	None
Hu	Shaoran	M	1992-10-11	Institute of Astronomy, University of Cambridge	Cambridge	United Kingdom	sh759@ast.cam.ac.uk	Ph.D. student	300	Poster	None
Schnauer	Anna	F	1989-11-24	ITA, University of Heidelberg	Heidelberg	Germany	schnauer@uh-heidelberg.de	Ph.D. student	300	Poster	She did not show up
Yildiz	Mustafa Kurad	M	1986-12-10	Kaptein Astronomical Institute	Groningen	Netherlands	mkyildiz@astro.rug.nl	Ph.D. student	300	Poster	None
Boardman	Nicholas	M	1991-04-06	University of St Andrews	St Andrews	United Kingdom	nfc@st-andrews.ac.uk	Ph.D. student	300	Poster	None
Morales	Guilavo	M	1985-05-18	Heidelberg University	Heidelberg	Germany	guilavo@os@gmail.com	Ph.D. student	300	Poster	None
Sen	Seyda	F	1987-09-30	Kaptein Astronomical Institute	Groningen	Netherlands	seneyda@star@gmail.com	Ph.D. student	300	Poster	None
Herpich	Jakob	M	1986-02-22	MPA	Heidelberg	Germany	herpich@mpa.de	Ph.D. student	600	Contributed oral	None
								Amount to be transferred back to IAU	1990	34 grants	
									1700		

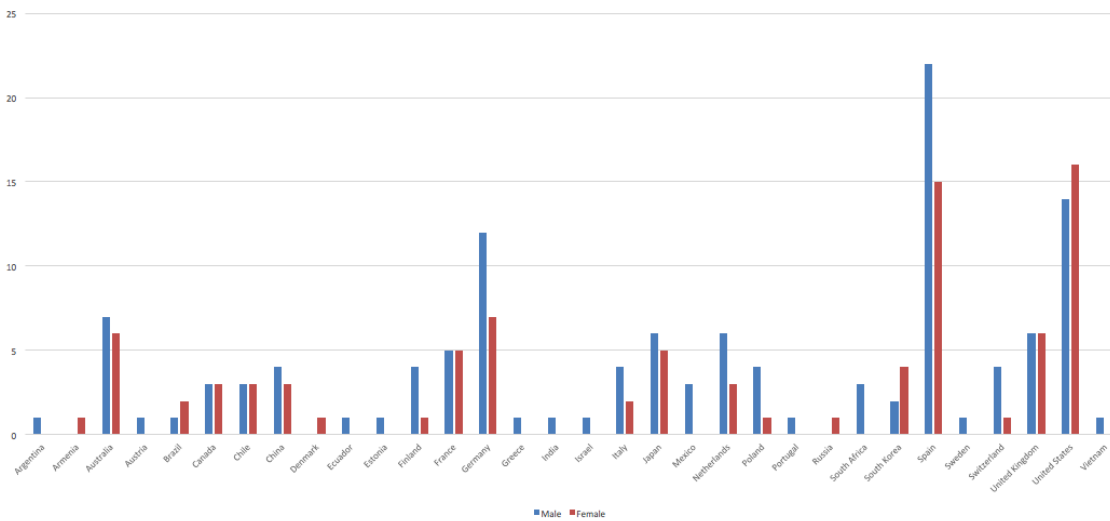
Below we provide a summary of the participants split by country of origin and gender (some of these numbers have been also provided by means of the *Women in Astronomy* form):

	Registered	Invited	Contributed	Poster	SOC	LOC	IAU grants
Male	123	8	57	49	8	3	19
Female	86	7	36	39	10	4	13
Male ratio	59%	53%	61%	56%	44%	43%	59%
Female ratio	41%	47%	39%	44%	56%	57%	41%
Total	209	15	93	88	18	7	32

Participants by country



IAUS321 Participants by Country & Gender



IAU GRANT APPLICATION FORM (to be FILLED & FAXED only if a IAU grant is requested)

Symposium information

1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Boardman **First name:** Nicholas
Address: 9 Shields Avenue,
Zip Code: KY16 8BJ **City:** St Andrews **State/Country:** Fife / United Kingdom
Phone: 07701087720 **Fax:** **E-mail:** nfb@st-andrews.ac.uk

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** The stellar outskirts of early-type galaxies with the Mitchell integral-field Spectrograph
8. **Amount of IAU grant support requested:** 720 €

9. **Date and place** 18/01/2016 St Andrews, UK Signature of applicant N Boardman

10. **(For Ph.D. students only)**

Ph.D. supervisor name Dr Anne-Marie Weijmans Signature of supervisor 

TERMS AND CONDITIONS

REGISTRATION CONFIRMATION

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- Awarded grants will be refunded the first day of the meeting upon desk registration.
- Notification of cancellation must be sent through the Feedback Form of the symposiumn webpage or directly to the General Foundation UCM in writing (fax or e-mail).
- In compliance with the provisions in the Spanish Organic Law LO 15/99 of personal data protection, we inform that the personal information provided will be stored in a database controlled by the FG UCM. The fulfilment of the present form implies to authorize FG UCM to use the personal data facilitated for the mentioned purpose. If you wish to exercise your rights to access, rectify, cancel and oppose the treatment of your data, please contact our offices.

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Symposium information

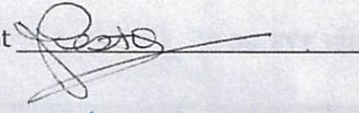
1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

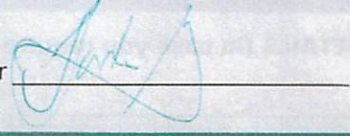
5. **Last name:** Preston **First name:** Janet
Address: University of Surrey, Stag Hill
Zip Code: GU2 7XH **City:** Guildford **State/Country:** Surrey / United Kingdom
Phone: +44 779 555 4022 **Fax:** **E-mail:** j.preston@surrey.ac.uk

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** Mapping the tidally disrupting Andromeda XXVII and it's stellar stream
8. **Amount of IAU grant support requested:** 445 €

9. **Date and place** U.K. 21/01/2016 Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name JUSTIN READ (Prof) Signature of supervisor 

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- In compliance with the provisions in the Spanish Organic Law LO 15/99 of personal data protection, we inform that the personal information provided will be stored in a database controlled by the FG UCM. The fulfilment of the present form implies to authorize FG UCM to use the personal data facilitated for the mentioned purpose. If you wish to exercise your rights to access, rectify, cancel and oppose the treatment of your data, please contact our offices.

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Symposium Information

1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Jang **First name:** In Sung

Address: Astronomy Program, Department of Physics and Astronomy, Seoul National University,, Gwanak-gu, Seoul 151-742, Korea

Zip Code: 151-742 **City:** Seoul **State/Country:** Seoul / South Korea

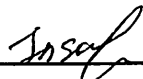
Phone: 010-6349-4236 **Fax:** **E-mail:** isjang@astro.snu.ac.kr

Presentation and grant request details

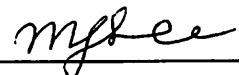
6. **Type of contribution:** Poster

7. **Title of contribution:** Unveiling the Formation History of the Massive Elliptical Galaxy M105 through Resolved Stars

8. **Amount of IAU grant support requested:** 300 €

9. **Date and place** 2016. 01. 25. Seoul. Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Myung Gyeon Lee. Signature of supervisor 

TERMS AND CONDITIONS

REGISTRATION CONFIRMATION

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IAU GRANT APPLICATION FORM (to be FILLED & FAXED only if a IAU grant is requested)

Symposium information


- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Yildiz **First name:** Mustafa Kursad
Address: Landleven 12, Kapteynborg
Zip Code: 9747 AD **City:** Groningen **State/Country:** Groningen / Netherlands
Phone: +31634897066 **Fax:** **E-mail:** mkyildiz@astro.rug.nl

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Recent Star Formation in the HI dominant outer regions of Early Type Galaxies
8. Amount of IAU grant support requested: 500 €

9. Date and place 15.03.2016/Toledo Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name RF Pelcher Signature of supervisor 

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Symposium information

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Kang **First name:** Jisu
Address: 1 Gwanak-ro,
Zip Code: 151-742 **City:** Seoul **State/Country:** Gwanak-gu / South Korea
Phone: +82-2-880-6621 **Fax:** +82-2-887-1435 **E-mail:** jskang@astro.snu.ac.kr

Presentation and grant request details

- 6. Type of contribution:** Poster
7. Title of contribution: Tracing the giant outer halo of the intriguing massive disk galaxy M104 with globular cluster systems
8. Amount of IAU grant support requested: 300 €

9. Date and place 2016. 01. 26. Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Myung Gyeom Lee Signature of supervisor 

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

5. Last name: Ko **First name:** Youkyung

Address: Seoul National University, 1 Gwanak-ro, Gwanak-gu

Zip Code: 08826 **City:** Seoul **State/Country:** Seoul / South Korea

Phone: +82-10-5060-8126 **Fax:** +82-2-887-1435 **E-mail:** ykko@astro.snu.ac.kr

Presentation and grant request details

6. Type of contribution: Poster

7. Title of contribution: Beyond the Edge of M87: Intracluster Globular Clusters in the Virgo Cluster

8. Amount of IAU grant support requested: 300 €

9. Date and place 2016. 01. 26 · Seoul Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Myung Gyeon Lee Signature of supervisor 

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Symposium information

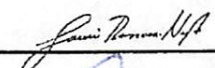
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3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

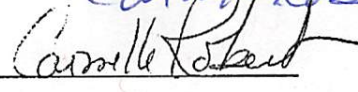
5. **Last name:** Rousseau-Nepton **First name:** Laurle
Address: 78 rue des Serpentes,
Zip Code: G0R3E0 **City:** Saint-Henri-de-Lévis **State/Country:** Québec / Canada
Phone: 1 418 262-5578 **Fax:** **E-mail:** laurie.r-nepton.1@ulaval.ca

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** Insight on Star Formation in the Outskirts of Galaxies with SITELLE.
8. **Amount of IAU grant support requested:** 1000 €

9. **Date and place** Québec, Nov. 25th, 2015 Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Carmelle Robert Signature of supervisor 

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Symposium information

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Matsuo **First name:** Mitsuhiro
Address: 462-2 Nobeyama, Minamimaki-mura,
Zip Code: 384-1305 **City:** Minamisaku-gun **State/Country:** Nagano / Japan
Phone: +81-267-98-4483 **Fax:** +81-267-98-2884 **E-mail:** mitsuhiro.matsuo@nao.ac.jp

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: A survey of molecular clouds in the outer Galaxy with the highest spatial resolution
8. Amount of IAU grant support requested: 1000 €

9. Date and place 31, January, 2016 / Nagano Signature of applicant 松尾 光洋

10. (For Ph.D. students only)

Ph.D. supervisor name Hiroyuki Nakanishi Signature of supervisor H. Nakanishi

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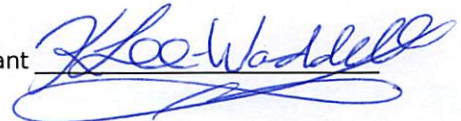
Applicant information

- 5. Last name:** Lee-Waddell **First name:** Karen
Address: PO Box 76,
Zip Code: 1710 **City:** Epping **State/Country:** NSW / Australia
Phone: +610293724129 **Fax:** **E-mail:** karen.lee-waddell@csiro.au

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: The frequency and properties of young tidal dwarf galaxies in nearby groups
8. Amount of IAU grant support requested: 900 €

9. Date and place Marsfield, Australia 12 Jan 16 Signature of applicant



10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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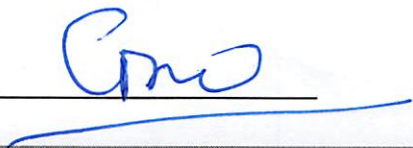
- 5. Last name:** Duc Thong **First name:** Le
Address: 46 Le Hong Phong,
Zip Code: 790000 **City:** Vung Tau **State/Country:** Ba Ria-Vung Tau / Vietnam
Phone: **Fax:** +84-6433571098 **E-mail:** ldthong@hotmail.com

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Strong limit on variation of the fine-structure constant using absorption line multiplets in the early universe
8. Amount of IAU grant support requested: 2900 €

9. Date and place 23/11/2015 Vung Tau Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Nguyen May Gien Signature of supervisor 

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Symposium information

- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Buck **First name:** Tobias
Address: Königstuhl 17,
Zip Code: 69117 **City:** Heidelberg **State/Country:** Baden-Württemberg / Germany
Phone: **Fax:** **E-mail:** buck@mpia.de

Presentation and grant request details

- 6. Type of contribution:** ~~Oral presentation~~ Poster
7. Title of contribution: The Plane Truth: Andromeda analog thin Planes of Satellites are not kinematical coherent structures
8. Amount of IAU grant support requested: 750,00 €

9. Date and place 22.16 Heidelberg Signature of applicant J. Buck

10. (For Ph.D. students only)

Ph.D. supervisor name ANDREA MACCIO Signature of supervisor [Signature]

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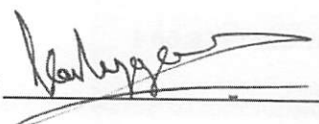
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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** George **First name:** Koshy
Address: Indian Institute of Astrophysics, II Block, Koramangala,
Zip Code: 560034 **City:** Bangalore **State/Country:** Karnataka / India
Phone: +91(80)2553 0672 **Fax:** +91(80)2553 4043 **E-mail:** koshy@iiap.res.in

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Outskirts of star forming blue early-type galaxies
8. Amount of IAU grant support requested: 2500 €

9. Date and place Bengaluru 03/02/2016 Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Aniyán **First name:** Suryashree
Address: Research School of Astronomy & Astrophysics, Cotter Road
Zip Code: 2611 **City:** Weston Creek **State/Country:** ACT / Australia
Phone: +61426801983 **Fax:** **E-mail:** suryashree.aniyan@anu.edu.au

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Resolving the Disk-Halo Degeneracy: A look at M74
8. Amount of IAU grant support requested: 1000 €

9. Date and place 18-01-2016 CANBERRA Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name K. C. FREEMAN Signature of supervisor 

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Applicant information

- 5. Last name:** LOPEZ **First name:** ERICSSON
Address: Observatorio Astronomico de Quito, Interior del Parque La Alameda, Av. Gran Colombia s/n,
Zip Code: 1701165 **City:** QUITO **State/Country:** PICHINCHA / Ecuador
Phone: 593996521134 **Fax:** **E-mail:** ericsson.lopez@epn.edu.ec

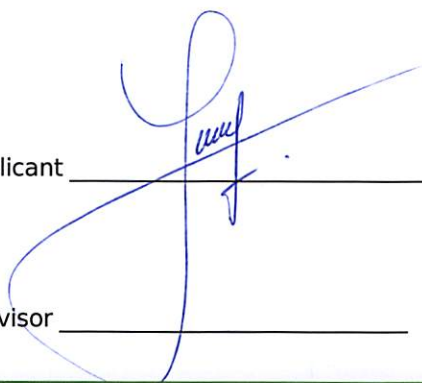
Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: ON THE PHYSICS OF NEGATIVE SIGNATURES IN VELOCITY PROFILES OF GALACTIC NEBULAE
8. Amount of IAU grant support requested: 1700 €

9. Date and place _____ **Signature of applicant** _____

10. (For Ph.D. students only)

Ph.D. supervisor name _____ **Signature of supervisor** _____



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Symposium information

- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

5. Last name: Ferrero **First name:** Santiago Ismael
Address: david luque 1224,
Zip Code: 5000 **City:** cordoba **State/Country:** cordoba / Argentina
Phone: +540351156112602 **Fax:** **E-mail:** ferreroismael@gmail.com

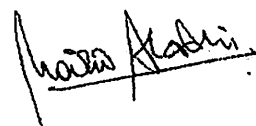
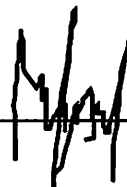
Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Redshift evolution of the Tully-Fisher relation in the EAGLE simulation.
8. Amount of IAU grant support requested: \$2.500 (Trip + Registration Fee + Partial acomodation) €

9. Date and place Cordoba, Arg. 1/02/2016 Signature of applicant _____

10. (For Ph.D. students only)

Ph.D. supervisor name Mario G. Abadi Signature of supervisor _____



TERMS AND CONDITIONS

REGISTRATION CONFIRMATION

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REGISTRATION & PAYMENT

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Symposium information

- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Urrutia-Viscarra **First name:** Fernanda
Address: Los Perales Poniente 0650,
Zip Code: 1710473 **City:** La Serena **State/Country:** IV region - Coquimbo / Chile
Phone: +56 9 9853 4925 **Fax:** **E-mail:** paurruti@gmail.com

Presentation and grant request details

- 6. Type of contribution:** Poster
7. Title of contribution: Star formation outside the Elliptical Galaxy NGC2865
8. Amount of IAU grant support requested: 700 €

9. Date and place Universidad de La Serena Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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Symposium information

1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Yuan **First name:** Fangting
Address: Nandan Road 80, Xuhui District
Zip Code: 200030 **City:** Shanghai **State/Country:** Shanghai / China
Phone: 02134775113 **Fax:** **E-mail:** yuanft@shao.ac.cn

Presentation and grant request details

6. **Type of contribution:** Poster presentation
7. **Title of contribution:** Galaxy close pairs in MaNGA
8. **Amount of IAU grant support requested:** 800 €

9. **Date and place** Shanghai, 2016. Jan. 10 Signature of applicant Yuan Fangting

10. **(For Ph.D. students only)**

Ph.D. supervisor name _____ Signature of supervisor _____

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Symposium information

1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Toyouchi **First name:** Daisuke
Address: 6-3 Aramaki,
Zip Code: 980-8578 **City:** Aoba-ku Sendai **State/Country:** Miyagi / Japan
Phone: 0227956512 **Fax:** 0227956513 **E-mail:** toyouchi@astr.tohoku.ac.jp

Presentation and grant request details

6. **Type of contribution:** Poster
7. **Title of contribution:** Structure and dynamics of the Milky Way disk as revealed from the radial velocity distributions of APOGEE red clump stars
8. **Amount of IAU grant support requested:** 1000 €

9. **Date and place** Jan. 29, 2016, Sendai, Japan Signature of applicant Daisuke Toyouchi

10. **(For Ph.D. students only)**

Ph.D. supervisor name Masashi Chiba Signature of supervisor M. Chiba

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Hu **First name:** Shaoran
Address: Churchill College, Churchill Road
Zip Code: CB30DS **City:** Cambridge **State/Country:** Cambridgeshire / United Kingdom
Phone: +447541968365 **Fax:** **E-mail:** sh759@ast.cam.ac.uk

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Stellar Spiral Structures in Triaxial Dark Matter Haloes
8. Amount of IAU grant support requested: 750 €

- 9. Date and place** Institute of Astronomy, Cambridge Signature of applicant 胡少冉
22/01/2016

10. (For Ph.D. students only)

Ph.D. supervisor name DEBORA SIJACKI Signature of supervisor Debora Sijacki

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3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Ciambur **First name:** Bogdan
Address: 80 A'Beckett Street, Unit 2210,
Zip Code: 3000 **City:** Melbourne **State/Country:** Victoria / Australia
Phone: +61 3 9214 8708 **Fax:** **E-mail:** bciambur@swin.edu.au

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** Finding the Hidden Features Around Galaxies
8. **Amount of IAU grant support requested:** 2000 €

9. **Date and place** 29/02/2016, Paris Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Prof. Alister Graham Signature of supervisor 

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Symposium information


1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Diaz Tello **First name:** Jorge
Address: Km 103, Carretera Tijuana-Ensenada.,
Zip Code: 22860 **City:** Ensenada **State/Country:** Baja California / Mexico
Phone: 52 646 1744580 **Fax:** 52 646 1744607 **E-mail:** jadiazt@astrosen.unam.mx

Presentation and grant request details

6. **Type of contribution:** Poster
7. **Title of contribution:** Star Formation Activity in Balmer Break Galaxies at z
8. **Amount of IAU grant support requested:** 310 €

9. **Date and place** 05-02-2016 Signature of applicant 

10. **(For Ph.D. students only)**

Ph.D. supervisor name _____ Signature of supervisor _____

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Nielsen **First name:** Nikki
Address: Mail number H29 Swinburne University of Technology, PO Box 218
Zip Code: 3122 **City:** Hawthorn **State/Country:** Victoria / Australia
Phone: **Fax:** **E-mail:** nikolenielsen@swin.edu.au

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Gas Kinematics in the Multiphase Circumgalactic Medium
8. Amount of IAU grant support requested: 900 €

9. Date and place 29-Jan-2016 Signature of applicant Nikole Nielsen

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

- 5. Last name:** Herpich **First name:** Jakob
Address: Koenigstuhl 17,
Zip Code: D-69117 **City:** Heidelberg **State/Country:** BW / Germany
Phone: +49 6221 528488 **Fax:** **E-mail:** herpich@mpia.de

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Surfing the bar: The formation of anti-truncated stellar disks
8. Amount of IAU grant support requested: 575 €

9. Date and place 2016/01/22 Heidelberg GER Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name Prof. Hans-Walter Rix Signature of supervisor 

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3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information


5. **Last name:** Igarashi **First name:** Asuka
Address: 1-1-1, Tennoudai, University of Tsukuba, Center for Computational Sciences
Zip Code: 305-8577 **City:** Tsukuba-shi **State/Country:** Ibaraki / Japan
Phone: 029-853-3370 **Fax:** **E-mail:** igarashi@ccs.tsukuba.ac.jp

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** A new concept of transonic galactic outflows and its application to the Sombrero galaxy
8. **Amount of IAU grant support requested:** ~~923~~ euro €
1223

9. **Date and place** December, 22, 2015, Tsukuba, Japan
Toledo, Spain, 14-18 March 2016 Signature of applicant Asuka Igarashi

10. **(For Ph.D. students only)**

Ph.D. supervisor name MASAO MORI Signature of supervisor 

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

5. Last name: Roca-Fàbrega **First name:** Santi

Address: Racah Institute of Physics, Kaplung Building, office 110, Givat Ram, Edmund J. Safra Campus, Hebrew University of Jerusalem,

Zip Code: 91904 **City:** Jerusalem **State/Country:** Jerusalem / Israel

Phone: +972-(0)26584928 **Fax:** **E-mail:** santi.roca@mail.huji.ac.il

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: Gas inflows and outflows on cosmological simulations of high redshift galaxies
8. Amount of IAU grant support requested: 500 € €

9. Date and place 10th January 2016, Jerusalem Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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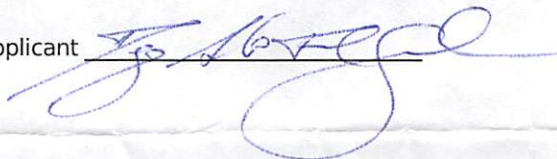
1. **Symposium Title:** "Formation and Evolution of Galaxy Outskirts" 2. **Symposium Number:** 321
3. **Location (city, country):** Toledo, Spain 4. **Dates of meeting:** 14-18 March 2015

Applicant information

5. **Last name:** Falceta-Goncalves **First name:** Diego
Address: Av Arlindo Bettio, 1000
Zip Code: 03828000 **City:** Sao Paulo **State/Country:** SP / Brazil
Phone: +55 11 974020152 **Fax:** **E-mail:** dfalceta@usp.br

Presentation and grant request details

6. **Type of contribution:** Oral presentation
7. **Title of contribution:** Stellar Feedback and Magnetic Fields on the Gas Loss Process of Dwarf Galaxies
8. **Amount of IAU grant support requested:** 300 €

9. **Date and place** 26 Nov 2015, Sao Paulo Signature of applicant 
BRAZIL

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant Information

- 5. Last name:** Hakopian **First name:** Susanna
Address: str. Yervand Kochar, building. 3, ap. 67
Zip Code: 0070 **City:** Yerevan **State/Country:** Yerevan / Armenia
Phone: +37491205126 **Fax:** **E-mail:** susannahakopian@yahoo.com

Presentation and grant request details

- 6. Type of contribution:** Oral presentation
7. Title of contribution: The Details from the 3D-spectroscopy of Starforming Galaxies.
8. Amount of IAU grant support requested: 700 €

9. Date and place 31.01.16, Yerevan Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name _____ Signature of supervisor _____

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IAU GRANT APPLICATION FORM (to be FILLED & FAXED only if a IAU grant is requested)

Symposium information

- 1. Symposium Title:** "Formation and Evolution of Galaxy Outskirts" **2. Symposium Number:** 321
3. Location (city, country): Toledo, Spain **4. Dates of meeting:** 14-18 March 2015

Applicant information

5. Last name: Morales **First name:** Gustavo
Address: Roemerstr. 74,
Zip Code: 69115 **City:** Heidelberg **State/Country:** Baden-Wurtemberg / Germany
Phone: +4917680753942 **Fax:** **E-mail:** gustavo85@gmail.com

Presentation and grant request details

- 6. Type of contribution:** Poster
7. Title of contribution: Stellar Tidal Streams as Cosmological Diagnostics
8. Amount of IAU grant support requested: 310 €

9. Date and place 01 FEB / 2016 Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name EVA GREBEL Signature of supervisor 

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Applicant information

5. Last name: SEN **First name:** Seyda

Address: Kwinkenplein 11 1/09 Groningen, 1/09

Zip Code: 9712 GW **City:** Groningen **State/Country:** Netherlands / Netherlands

Phone: +905365780266 **Fax:** **E-mail:** senseydar@gmail.com

Presentation and grant request details

6. Type of contribution: Poster

7. Title of contribution: Stellar Populations of Dwarf Elliptical Galaxies

8. Amount of IAU grant support requested: 500 €

9. Date and place 30.09.1987 / TURKEY Signature of applicant 

10. (For Ph.D. students only)

Ph.D. supervisor name RF Peliter Signature of supervisor 

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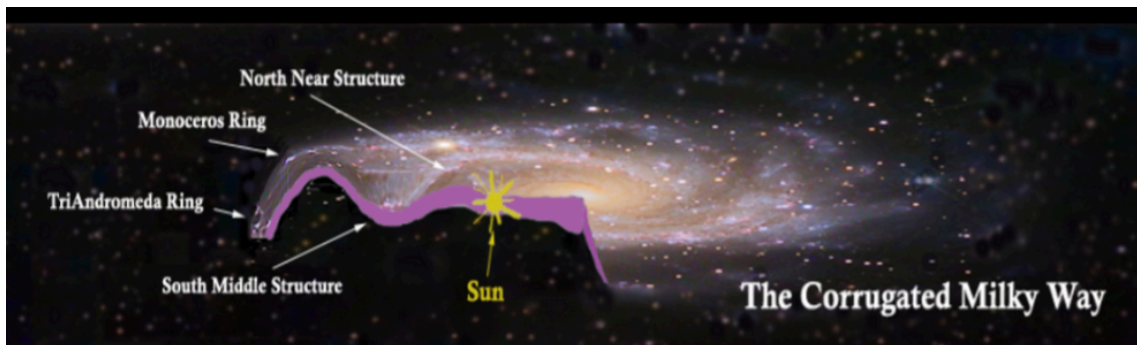
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Meeting Highlights

IAU Symposium 321 Formation and evolution of galaxy outskirts Toledo (Spain), March 14-18th 2016

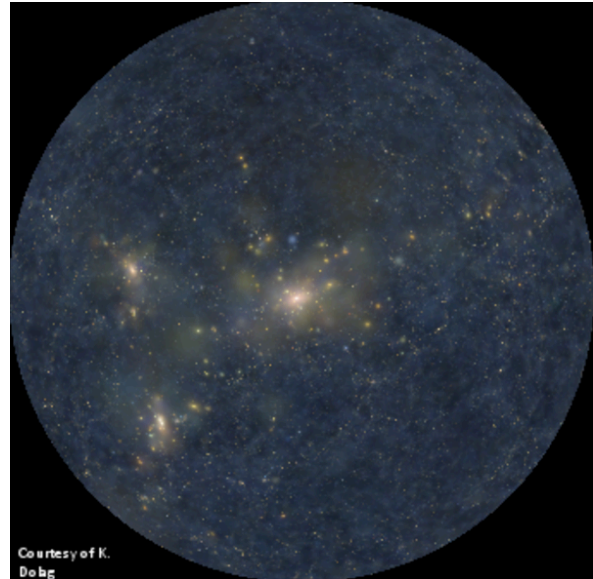
During the IAU Symposium 321 (“Formation and evolution of galaxy outskirts”) the SOC has identified the following results as the major highlights of the meeting:

1. Resolved stellar populations in the outskirts of galaxies
 - Gaia will soon allow to find dozens of new streams and satellite galaxies in the next couple of years, and perhaps hundreds by the time the Gaia mission ends.
 - An asymmetry in the disk of the Milky Way that oscillates from the north to the south. Oscillations induced by infalling dwarf galaxies or dark subhalos could produce these vertical displacements (see figure below)



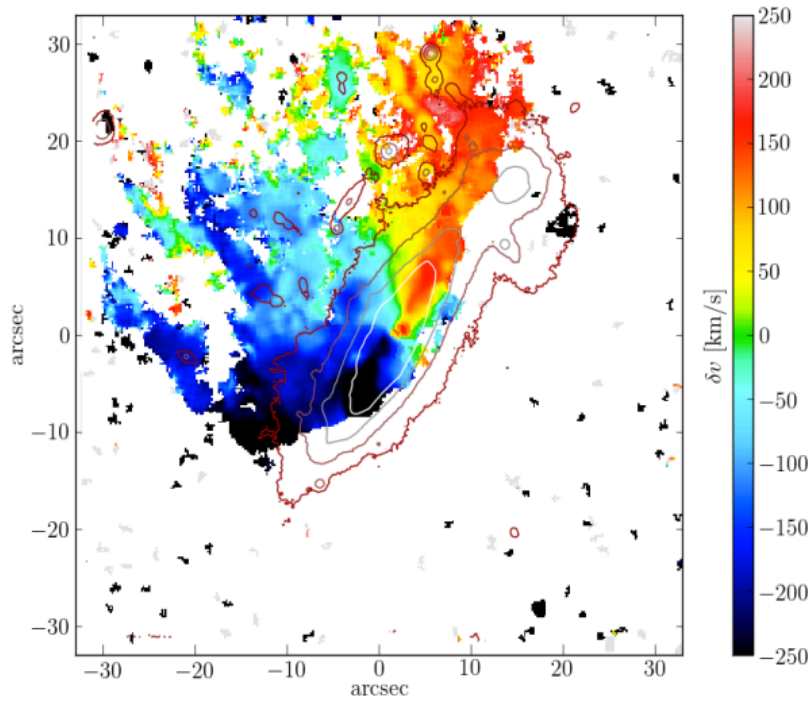
- The near-field cosmology is now ready to cross the Local Group borders. Significant advantages have been possible in this field thanks to the advent of Hyper Suprime Cam at the Subaru 8m telescope.
 - The M31-M33 Giant Stream when observed with HST shows that its single-star age-metallicity relation is consistent with an elliptical galaxy progenitor.
2. Modeling of galaxy outskirts
 - Hot gas shows a highly anisotropic distribution in MW-size galaxies. Only a fraction of missing baryons can be accounted by hot halo coronae.
 - The outer stellar halos of galaxies can be well described by Einasto profiles, independent of the galaxy properties. The three free parameters of the Einasto profiles are actually correlated depending only on the total mass of the galaxy.
 - These halos grow through accretion and disruption of satellite galaxies and puffing up of the central stellar structures through stellar winds.

- Cosmological zoom simulations of formation of disc galaxies reveal that the stellar fraction in extended component decreases in WDM models relative to CDM model.
- Stochasticity and IMF sampling effects are extremely important when modeling the stellar populations in the outskirts of galaxies, where both SFR and stellar mass surface densities are extremely low.



3. Outskirts of nearby galaxies

- Diffuse light detection of streams in nearby spiral galaxies by means of deep imaging reaches SB(limit) of 29.5 mag/arcsec². Galactic cirrus contamination prevent the search for stream at lower detection levels even at high- galactic latitude. This SB(limit) only allows to detect streams in the 15-20% of galaxies, still in agreement with preliminary CDM stellar halos models.
- Breaks are signposts of disk assembly and migration can create breaks at large radii. Molecular gas profiles are broken too in Type II spiral disks.
- As expected, stream-like structures are more common in groups and interacting systems. Extended structures that are also high surface brightness are almost always associated with luminous galaxies (there are a few exceptions). Extended stellar distributions may be diffuse disks or stellar halos.
- Planetary nebulae are excellent probes to investigate the outer galaxy haloes both from the kinematical (V/σ , angular momentum) and from the dynamical point of view (mass and anisotropy); The V/σ and velocity dispersion profiles of (fast and slow rotator) ETG from PNe consistent with predicted profiles from recent models of galaxy formation.
- Anisotropy (preliminary) constraints on a sample of 15 ETGs from the Planetary Nebula Spectrograph elliptical galaxy survey show a variety of $\beta(r)$ profile and a virial mass anisotropy correlation: lower mass haloes have stars in highly radially biased orbits; high mass haloes have stars in isotropic or slightly tangential anisotropic orbits.
- The most common assembly pathway for 10^{11} Mo galaxies is growth by minor mergers.
- Outer disk star formation is common >20% incident rate in HI selected galaxies.
- The star formation efficiency in the outers disks is very low, in the 1% range. The outer disks appear marginally 'Toomre' stable.



4. Outskirts of distant galaxies and DLAs

- Through stacking we can construct a representative Rotation Curve reaching out to $\sim 2.5 R_{\text{turn}}$ with significant negative outer slope. Stacked Rotation Curve is consistent with high baryonic fraction in combination with significant pressure support in the outer disk. Splitting sample in bins of V/σ confirms that falloff is partly driven by pressure support
- Galaxies show a factor ≥ 2 increase in the total stellar mass during the last 8 Gyr. The mass increase is accompanied by a similar increase in radius.
- DLA galaxy halo (CGM out to 40 kpc) have a gradient of -0.02 dex/kpc (similar to discs).