

XXXTH GENERAL ASSEMBLY OF THE
INTERNATIONAL ASTRONOMICAL UNION

IAU SYMPOSIUM 348

21ST CENTURY ASTROMETRY:
CROSSING THE DARK AND HABITABLE FRONTIERS

TUESDAY, 28TH AUGUST 2018 – FRIDAY, 31ST AUGUST 2018

SCIENTIFIC PROGRAMME

IAU SYMPOSIUM 348

21ST CENTURY ASTROMETRY: CROSSING THE DARK AND HABITABLE FRONTIERS

WHEN?

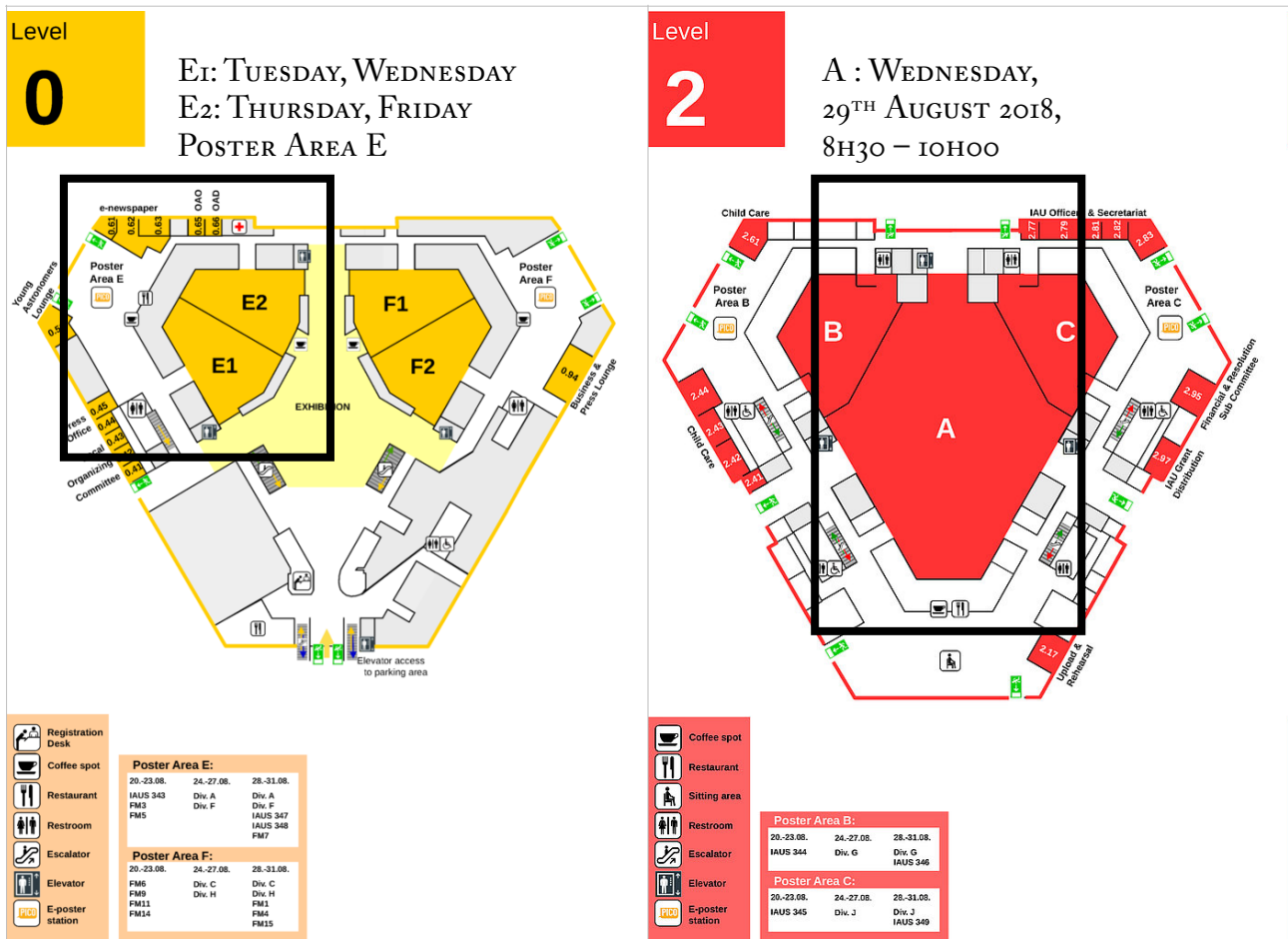
TUESDAY, 28TH AUGUST 2018 – FRIDAY, 31ST AUGUST 2018

WHERE?

AUSTRIA CENTER VIENNA

BRUNO-KREISKY-PLATZ 1, A-1220 VIENNA

UNDERGROUND STATION: UNDERGROUND U1 “KAISERMÜHLEN-VIC”



WHAT AND WHO?

SEE IN THE NEXT FEW PAGES!

IF YOU NEED HELP : IAUS348ASTRO@GMAIL.COM

IAU SYMPOSIUM 348
21ST CENTURY ASTROMETRY: CROSSING THE DARK AND HABITABLE FRONTIERS

ORAL COMMUNICATIONS

TUESDAY, 28TH AUGUST 2018 [13H30 – 17H00, ROOM E1]

OPENING REMARKS [13H30-13H45]

DWARF GALAXIES AND THE MILKY WAY

[INVITED TALK – 13H45–14H20]

LAURA WATKINS : ASTROMETRIC MEASUREMENTS FOR STUDIES OF DWARF GALAXIES
(Space Telescope Science Institute, Baltimore, USA)

[CONTRIBUTED TALKS¹]

[14H20–14H40]

MAPPING THE MILKY WAY'S DARK MATTER WITH HIGH-PRECISION ASTROMETRY
Bovy, Jo (University of Toronto, Toronto, CAN)

[14H40–15H00]

PROBING THE NATURE OF DARK MATTER WITH THEIA: A MISSION CONCEPT FOR ULTRA
PRECISE DIFFERENTIAL ASTROMETRY
Mamon, Gary (LAP, Paris, FRA)

[15H30–15H45]

THE STAR FORMATION HISTORY OF THE GALAXY FROM GAIA ASTROMETRY OF WHITE
DWARFS
*von Hippel, Ted (Embry Riddle Aeronautical University, Daytona Beach, USA); Bailer-Jones,
Coryn (Max Planck Institute for Astronomy, Heidelberg, GER); Fouesneau, Morgan (Max Planck
Institute for Astronomy, Heidelberg, GER); Jeffery, Elizabeth (California Polytechnic State
University, San Luis Obispo, USA); Robinson, Elliot (Argiope Technical Solutions, Fort White,
USA); Stenning, David (Imperial College London, London, GBR); van Dyk, David (Imperial
College London, London, GBR)*

[15H45–16H00]

PHASE-SPACE CORRELATIONS AMONG SATELLITES IN THE LOCAL GROUP
Pawlowski, Marcel (University of California Irvine, Irvine, USA)

[16H00–16H20]

THE GAIA REVOLUTION IN PRE-MAIN SEQUENCE STARS AND STAR CLUSTERS
*Hillenbrand, Lynne (California Institute of Technology, Pasadena, USA); Kuhn, Michael
(California Institute of Technology, Pasadena, USA)*

[16H20–16H40]

MASER STARS TRACING THE MILKY WAY
van Langevelde, Huib (JIVE/Leiden, Dwingeloo, NED)

[16H40–17H00]

GAIANIR - PROGRESS TOWARDS A FUTURE ALL-SKY ASTROMETRY MISSION
Hobbs, David (Lund Observatory, Lund, SWE)



¹ Note: the presenting author is indicated in red.

WEDNESDAY, 29TH AUGUST 2018

IAU GENERAL ASSEMBLY PLENARY SESSION [8H30 – 10H00, LECTURE HALL A]

[INVITED TALK – 8H30–9H15]

ANTHONY BROWN : THE GAIA MISSION AND THE GAIA MISSION EXTENSION
(*Leiden University, Leiden, NED*)

[INVITED TALK – 9H15–10H00]

JOSS BLAND-HAWTHORN : NEAR-FIELD COSMOLOGY AND ASTROMETRY
(*University of Sydney, Sydney, AUS*)



GRAVITATIONAL EFFECTS [13H30 – 15H00, ROOM E1]

[INVITED TALK – 13H30–14H00]

LUKASZ WYRZYKOWSKI : PROBING THE GALACTIC POPULATION OF BLACK HOLES WITH
OGLE AND GAIA
(*Warsaw University Astronomical Observatory, Warsaw, POL*)

[CONTRIBUTED TALKS]

[14H00–14H15]

GRAL : SEARCH FOR GRAVITATIONAL LENSES IN GAIA DR2

Ducourant, Christine (Laboratoire d'Astrophysique de Bordeaux, Bordeaux, FRA); Krone-Martins, Alberto (Universidade de Lisboa, Lisboa, POR); Delchambre, Ludovic (Institut d'Astrophysique et de Géophysique de Liège, Liège, BEL); Wertz, Olivier (Argelander-Institut für Astronomie, Bonn, GER); Klüter, Jonas (Zentrum für Astronomie der Universität Heidelberg, Heidelberg, GER); Surdej, Jean (Institut d'Astrophysique et de Géophysique de Liège, Liège, BEL); Mignard, François (Université Côte d'Azur, Nice, FRA); Galluccio, Laurent (Université Côte d'Azur, Nice, FRA); Teixeira, Ramachrisna (Universidade de São Paulo, São Paulo, BRA); François Le Campion, Jean (Laboratoire d'Astrophysique de Bordeaux, Bordeaux, FRA); Wambsganss, Joachim (Zentrum für Astronomie der Universität Heidelberg, Heidelberg, GER); Bastian, Ulrich (Zentrum für Astronomie der Universität Heidelberg, Heidelberg, GER); Djorgovski, Stanislav G. (California Institute of Technology, Pasadena, USA); Graham, Matthew J. (California Institute of Technology, Pasadena, USA); Slezak, Eric (Université Côte d'Azur, Nice, FR)

[14H30–14H45]

ASTROPHYSICS WITH GAIA WIDE BINARIES

Andrews, Jeff (FORTH, Heraklion, GRE); Chanamé, Julio (Pontificia Universidad Católica de Chile, Santiago, CHL); Agüeros, Marcel (Columbia University, New York, USA); Anguiano, Borja (University of Virginia, Charlottesville, USA); Lewis, Hannah (University of Virginia, Charlottesville, USA); Majewski, Steve (University of Virginia, Charlottesville, USA)

[14H15–14H30]

VERY WIDE STELLAR BINARIES AS PROBES OF GRAVITY

Chanamé, Julio (Pontificia Universidad Católica de Chile, Santiago, CHL)

[14H45–15H00]

THE ASTROMETRIC GRAVITATION PROBE MISSION CONCEPT

Gai, Mario (INAF – Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Riva, Alberto (INAF – Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Vecchiato, Alberto (INAF – Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Busonero, Deborah (INAF – Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Lattanzi, Mario G. (INAF – Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Sozzetti, Alessandro (INAF – osservatorio Astrofisico di Torino, Pino Torinese, ITA)



COMPACT OBJECTS [15H30 – 17H00]

[INVITED TALK – 15H30-16H00]

MICHAELA OERTEL : THE EQUATION OF STATE OF COMPACT OBJECTS AND THE IMPORTANCE OF ASTROMETRIC MEASUREMENTS

(Observatoire de Paris LUTH, Paris, FRA)

[CONTRIBUTED TALKS]

[16H00–16H15]

DETECTING ISOLATED, STELLAR-MASS BLACK HOLES THROUGH ASTROMETRIC MICROLENSING

Sahu, Kailash (Space Telescope Science Institute, Baltimore, USA); Anderson, Jay (STScI, Baltimore, USA); Bellini, A. (STScI, Baltimore, USA); Bond, H. (STScI, Baltimore, USA); Brown, T. (STScI, Baltimore, USA); Calamida, A. (STScI, Baltimore, USA); Casertano, S. (STScI, Baltimore, USA); Kains, N. (STScI, Baltimore, USA); Udalski, A. (Warsaw University, Warsaw, POL)

[16H15–16H30]

DISCOVERY OF NEW WHITE DWARFS USING GAIA ACCURATE ASTROMETRY

Mickaelian, Areg (Byurakan Astrophysical Observatory (BAO), v. Byurakan, ARM); Mikayelyan, Gor (Byurakan Astrophysical Observatory (BAO), Byurakan, AUT)

[16H30–16H45]

ABOUT PLANETS AROUND THE PULSARS B0329+54 AND B0525+21

Starovoit, Elena (Pushchino Radio Astronomy Observatory, Pushchino, RUS); Rodin, Alexander (Pushchino Radio Astronomy Observatory, Pushchino, RUS)

[16H45–17H00]

SMALL-JASMINE MISSION

Gouda, Naoteru (National Astronomical Observatory of Japan, Tokyo, JPN); JASMINE, Working Group (NAOJ, JAXA, Kyoto Univ., etc, Tokyo, JPN)



THURSDAY, 30TH AUGUST 2018

THE DISTANCE SCALE OF THE UNIVERSE [8H30 – 10H00, ROOM E2]

[INVITED TALK – 8H30–9H00]

STEFANO CASERTANO : ASTROMETRIC MEASUREMENTS FOR THE DETERMINATION OF H_0
(*Space Telescope Science Institute, Baltimore, USA*)

[CONTRIBUTED TALKS]

[9H00–9H15]

CLASSICAL CEPHEIDS NEAR-INFRARED PERIOD-LUMINOSITY RELATIONS BASED ON VISTA
MAGELLANIC CLOUD (VMC) SURVEY DATA AND GAIA PARALLAXES

Ripepi, Vincenzo (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Clementini, Gisella (INAF-OAS, Bologna, ITA); Marconi, Marcella (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Molinaro, Roberto (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Cioni, Maria-Rosa (Leibniz-Institut für Astrophysik Potsdam, Potsdam, GER)

[9H15–9H30]

A NEW CALIBRATION OF THE COSMIC DISTANCE LADDER BASED ON GAIA PARALLAXES OF RR
LYRAE STARS

Muraveva, Tatiana (INAF OAS, Bologna, ITA)

[9H30–9H45]

ACCURATE PARALLAXES OF CLASSICAL CEPHEIDS: OPPORTUNITIES AND CHALLENGES FOR
THE DISTANCE SCALE

Anderson, Richard I. (European Southern Observatory, München, GER); Riess, Adam G. (Johns Hopkins University, Baltimore, MD, USA); Casertano, Stefano (Space Telescope Science Institute, Baltimore, MD, USA); Eyer, Laurent (Université de Genève, Saclay, CHE); Mowlavi, Nami (Université de Genève, Saclay, CHE)

[9H45–10H00]

THE THEORETICAL SCENARIO TO INTERPRET GAIA RESULTS FOR CEPHEIDS AND RR LYRAE

Marconi, Marcella (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Musella, Iliaria (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Cignoni, Michele (University of Pisa -Dipartimento di Fisica, Pisa, ITA); Ripepi, Vincenzo (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA); Clementini, Gisella (INAF-Osservatorio Astronomico di Bologna, Bologna, ITA); Moretti, Maria Ida (INAF-Osservatorio Astronomico di Capodimonte, Napoli, ITA)



EXTRASOLAR PLANETARY SYSTEMS [10H30 – 12H00 & 13H30 – 15H00, ROOM E2]

[INVITED TALK – 10H30–11H10]

ALEXANDRE CORREIA : DYNAMICS OF MULTI-PLANET SYSTEMS AND THE IMPORTANCE OF
ASTROMETRIC MEASUREMENTS

(University of Aveiro, Aveiro, POR)

[CONTRIBUTED TALKS]

[11H10–11H30]

REVISED ESTIMATES OF THE FREQUENCY OF EARTH-LIKE PLANETS IN THE KEPLER FIELD

Barbato, Domenico (INAF - Torino Observatory, ITA); Bonomo, Aldo (INAF - Torino Observatory, ITA); Sozzetti, Alessandro (INAF - Torino Observatory, ITA); Morbidelli, Roberto (INAF - Torino Observatory, ITA)

[11H30–11H50]

ASTROMETRIC STUDIES OF EXOPLANETS WITH GAIA AND GAIA-NIR

Ranalli, Piero (Lund University, Lund, SWE)

[INVITED TALK – 13H30–14H00]

DAVID BENNETT : EXOPLANET ASTROMETRY METHODS FOR WFIRST

(NASA Goddard Space Flight Center, Greenbelt, USA)

[CONTRIBUTED TALKS]

[14H00–14H20]

DETECTION OF GIANT PLANETS COMBINING ASTROMETRY AND RADIAL VELOCITIES: THE GAIA POTENTIAL

Giacobbe, Paolo (INAF-OATo, ITA); Sozzetti, Alessandro (INAF - Torino Observatory, ITA); Lattanzi, Mario G. (INAF - Osservatorio Astrofisico di Torino, ITA)

[14H20–14H40]

BIO-SIGNATURE DETECTION AND STATISTICS OF NEARBY BIO-HABITABLE PLANETS

Wandel, Amri (Hebrew University of Jerusalem, ISR)



FRIDAY, 31ST AUGUST 2018

AT THE HALO : HYPERVELOCITY STARS, DWARFS AND GLOBULAR CLUSTERS
[8H30 – 10H00, ROOM E2]

[INVITED TALK – 8H30–9H00]

ELENA ROSSI : HYPERVELOCITY STARS AS POWERFUL DYNAMICAL TRACERS OF DARK MATTER
(*Leiden University, Leiden, NED*)

[CONTRIBUTED TALKS]

[9H00–9H15]

A SYSTEMATIC SEARCH FOR HYPERVELOCITY STARS FROM THE LAMOST SPECTROSCOPIC SURVEYS

Huang, Yang (Yunnan University, Kunming, CHN)

[9H15–9H30]

USING PROPER MOTIONS TO CONSTRAIN THE ORIGIN OF GALAXIES

Fritz, Tobias (Instituto de Astrofísico de Canarias, La Laguna, ESP)

[9H30–9H45]

NEW ASTROMETRIC DIRECTIONS IN GLOBULAR STAR CLUSTER RESEARCH

Richer, Harvey (UBC, British Columbia, CAN)

[9H45–10H00]

GROUND-BASED ASTROMETRIC PROJECT VERA : OVERVIEW, SCIENCE HIGHLIGHTS AND SYNERGY WITH GAIA

Sakai, Nobuyuki (NAOJ, Mitaka, JPN); Honma, Mareki (NAOJ, SOKENDAI, Oshu, JPN); Hirota, Tomoya (NAOJ, Mitaka, JPN); Nagayama, Takumi (NAOJ, Oshu, JPN); Oyama, Tomoaki (NAOJ, Oshu, JPN); Yamauchi, Aya (NAOJ, JSPS fellow, Oshu, JPN); Ishikawa, Toshiaki (NAOJ, Oshu, JPN); Handa, Toshihiro (Kagoshima University, Kagoshima, JPN); Hirano, Ken (NAOJ, Oshu, JPN); Imai, Hiroshi (Kagoshima University, Kagoshima, JPN); Jike, Takaaki (NAOJ, Oshu, JPN); Kameya, Osamu (NAOJ, Oshu, JPN); Kono, Yusuke (NAOJ, Mitaka, JPN); Kobayashi, Hideyuki (NAOJ, Mitaka, JPN); Nakagawa, Akiharu (Kagoshima University, Kagoshima, JPN); Shibata, Katsunori M. (NAOJ, Mitaka, JPN); Sakai, Daisuke (NAOJ, Oshu, JPN); Sunada, Kazuyoshi (NAOJ, Oshu, JPN); Sugiyama, Koichiro (NAOJ, Mitaka, JPN); Sato, Katsuhisa (NAOJ, Oshu, JPN); Omodaka, Toshihiro (Kagoshima University, Kagoshima, JPN); Tamura, Yoshiaki (NAOJ, Oshu, JPN); Ueno, Yuji (NAOJ, Oshu, JPN); VERA project team, et al. (NAOJ, Oshu, JPN)



MODERN STATISTICS AND INFORMATICS FOR ASTROMETRY
[13H30 – 16H50, ROOM E2]

[INVITED TALK – 13H30–14H00]

RAFAEL DE SOUZA : A REVIEW OF MODERN STATISTICAL AND MACHINE LEARNING METHODOLOGIES APPLIED TO ASTROMETRIC DATA

(University of North Carolina at Chapel Hill, Chapel Hill, USA)

[CONTRIBUTED TALKS]

[14H00–14H20]

A NOVEL APPROACH TO DETECT PERIODICITY IN TWO-DIMENSIONAL ASTROMETRY
Zucker, Shay (Tel Aviv University, Tel Aviv, ISR)

[14H20–14H40]

GALACTIC TOMOGRAPHY VIA INFORMATION FIELD THEORY
Enßlin, Torsten (MPI.f. Astrophysics, Garching, GER)

[14H40–15H00]

ON THE ASTROMETRIC BIAS FOR OBJECTS WITH OVERLAPPING IMAGE PROFILES
Ivantsov, Anatoliy (Akdeniz University, Antalya, TUR); Eggl, Siegfried (NASA Jet Propulsion Laboratory, California Institute of Technology, Pasadena, USA); Hestroffer, Daniel (IMCCE, Observatoire de Paris, Université PSL, CNRS, Sorbonne Université, Univ. Lille, Paris, FRA)

[15H30–15H45]

NUMERICAL INTEGRATION OF GRAVITATIONAL FIELD FOR GENERAL THREE-DIMENSIONAL OBJECTS AND ITS APPLICATION TO GRAVITATIONAL STUDY OF GRAND DESIGN SPIRAL ARM STRUCTURE
Fukushima, Toshio (National Astronomical Observatory of Japan, Tokyo, JPN)

[15H45–16H00]

DIFFERENTIAL ASTROMETRY WITH GAIA SIMULATED OBSERVATIONS
Abbas, Umami (INAF - Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Bucciarelli, Beatrice (INAF - Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Crosta, Mariateresa (INAF - Osservatorio Astrofisico di Torino, Pino Torinese, ITA); Lattanzi, Mario (INAF - Osservatorio Astrofisico di Torino, Pino Torinese, ITA)

[16H00–16H15]

THE USNO ROBOTIC ASTROMETRIC TELESCOPE (URAT) PROGRAM
Zacharias, Norbert (US Naval Observatory, Edgewater, USA)m

[16H15–16H30]

LEGOLAS: THE EVOLUTION
Riva, Alberto (INAF OATO, Pino Torinese, ITA); Busonero, Deborah (INAF OATO, Pino Torinese, ITA); Gai, Mario (INAF OATO, Pino Torinese, AUT); Crosta, Maria Teresa (INAF OATO, Pino Torinese, ITA); Vecchiato, Alberto (INAF OATO, Pino Torinese, ITA); Lattanzi, Mario Gilberto (INAF OATO, Pino Torinese, ITA)

[16H30–16H45]

THE GAIA ARCHIVE. STATUS AND CHALLENGES FOR DATA RELEASE 3+
Mora, Alcione (Aurora Technology BV for ESA, Villanueva de la Canada - Madrid, ESP)



CLOSING REMARKS [16H45 – 17H00]



IAU SYMPOSIUM 348
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POSTERS

POSTERS [TUESDAY 28TH – FRIDAY 31ST, POSTER AREA E]

AN UPPER LIMIT ON THE ENERGY DENSITY OF THE GRAVITATIONAL WAVE BACKGROUND AND ON VARIATIONS OF THE GRAVITATIONAL POTENTIAL MEASURED WITH THE PULSAR TIMING
Fedorova, Viktoriya (Pushchino Radio Astronomy Observatory, Pushchino, RUS)

MONITORING OF OPTICAL MAGNITUDES OF QUASARS IN LINE WITH THE LINK
ICRF - GAIA CRF
Damljanovic, Goran (Astronomical Observatory, Belgrade, SER)

DETECTION OF EXOPLANETS IN MULTISYSTEM STARS USING QUANTIZATION OF ORBITS
Morcos, Abd El Fady (National Research Institute of Astronomy and Geophysics – NRLAG, Cairo, EGY)

DISCOVERY OF TWO NEW HOT JUPITERS: WASP-163 B AND WASP-170 B
Barkaoui, Khalid (Cadi Ayyad University, Marrakech, MAR)

ASTROMETRIC DATA REDUCTION (JASMINE CASE)
Yamada, Yoshiyuki (Kyoto University, Kyoto, JPN)

MASS DISCREPANCY-ACCELERATION RELATION FROM GIANT ELLIPTICAL GALAXIES TO DWARF GALAXIES
Tian, Yong (Institute of Astronomy, National Central University, Taoyuan City, TWN)

TYCHO-GAIA VS GAIA DR2
Michalik, Daniel (European Space Agency ESA/ESTEC, Noordwijk, NED)

EXOPLANETS DETECTION USING EMPIRICAL MODE DECOMPOSITION
Vasconez, Christian (Escuela Politecnica Nacional, Quito, ECU)

USING mHz QPOs TO PUT CONSTRAINTS ON NEUTRON STAR SIZE AND EQUATION OF STATE
Stiele, Holger (National Tsing Hua University, Hsinchu, TWN)

ANALYSIS OF DATA MODERN ASTROMETRIC CATALOGUES IN GAIA ERA
Akhmetov, Volodymyr (Institute of Astronomy V.N. Karazin Kharkiv National University, Kharkiv, UKR)

GEODETIC VLBI, EARTH ROTATION AND THE SAGNAC EFFECT
Titov, Oleg (Geoscience Australia, Canberra, AUS)

MIXTURE MODEL FOR KINEMATICS AND MEMBERSHIPS OF OPEN CLUSTER
Shao, Zhengyi (Shanghai Astronomical Obs., CAS, Shanghai, CHN)

MACHINE LEARNING FOR RR LYRAE STARS
Zhang, Yanxia (Shanghai Astronomical Obs., CAS, Shanghai, CHN)

OBSERVING IN THE PAST THANKS TO THE GAIA ASTROMETRIC REFERENCE STAR CATALOGUE
Arlot, Jean-Eudes (CNRS IMCCE UMR8028, Paris, FRA)

GAIA DR1 EVIDENCE OF DISRUPTING THE PERSEUS ARM
Baba, Junichi (National Astronomical Observatory of Japan, Tokio, JPN)

THE EFFECTS OF THE GALACTIC STRUCTURES ON SOLAR MOTION MEASUREMENTS
Kashiwada, Yuki (The University of Japan, Mitaka Tokio, JPN)

STRONG GRAVITATIONAL LENSING BY ELLIPTICAL AND SPIRAL GALAXIES IN MODIFIED
NEWTONIAN DYNAMICS
Ko, Chung-Ming (Institute of Astronomy, National Central University, Taoyuan City, TWN)

THE AUTOMATED MORPHOLOGICAL CLASSIFICATION OF GALAXIES FROM THE SDSS AT $z < 1.0$
BY THE MACHINE LEARNING TECHNIQUE
Vavilova, Iryna (Main Astronomical Observatory, NAS of Ukraine, Kyiv, UKR)

ANALYSIS OF THE PARAMETERS OF THE DM HALO AROUND THE NON-RADIALLY
OSCILLATING DISK
Mirtadjieva, Karamat (Ulugh Beg Astronomical Institute, Tashkent, UZB)

MICROLENSING AND TIME DELAYS IN GRAVITATIONAL LENSED QUASARS
Akhunov, Talat (National University of Uzbekistan, Tashkent, UZB)

NEW CATALOGUE OF EXTRAGALACTIC OBJECTS IN THE GAIA ERA
Khramtsov, Vladislav (V.N. Karazin Kharkiv National University, Kharkiv, UKR)

STATE-OF-THE-ART HUBBLE SPACE TELESCOPE PROPER MOTION (HSTPROMO) CATALOG
OF GALACTIC GLOBULAR CLUSTERS. NEW INSIGHTS AND RESULTS.
Libralato, Mattia (Space Telescope Science Institute, Baltimore, USA)

UNSUPERVISED PHOTOMETRIC GALAXY CLUSTERING: ANALYSIS OF EUCLID AND DES BANDS
WITH UPMASK
Carvalho, Ana (Universidade de Lisboa, Faculdade de Ciências, Lisboa, Portugal)

OMEGA CENTAURI: HST INTERNAL KINEMATICS
Bellini, Andrea (Space Telescope Science Institute, Baltimore, USA)

GALACTIC ROTATION CURVE BEYOND THE SOLAR CIRCLE OUT TO R_{0+10} KPC
Dambis, Andrey (Sternberg Astronomical Institute, Moscow, RUS)

FINDING NEEDLES IN THE HAYSTACK: A COMPARISON OF OUTLIER DETECTION METHODS
Martínez-Galarza, Rafael (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA)

THE PHOTOMETRIC LSST ASTRONOMICAL TIME-SERIES CLASSIFICATION CHALLENGE
(PLAsTiCC)
Martínez-Galarza, Rafael (Harvard-Smithsonian Center for Astrophysics, Cambridge, USA)

AFTER 65 YEARS DEDICATED TO ASTROMETRIC INSTRUMENTATION, A GAIA SUCCESSOR IS IN
SIGHT
Høg, Erik (Copenhagen University, Bagsvaerd, DEN)

BAYESIAN ESTIMATION AND PREDICTION OF REDSHIFT-INDEPENDENT EXTRAGALACTIC
DISTANCE ERRORS
Chaparro, Germán (Universidad ECCI, Bogotá, COL)

THE WARPED POTENTIAL OF THE MILKY WAY REVEALED BY GAIA DR₂
Poggio, Eloisa (INAF, Torino, ITA)

DYNAMICAL EFFECTS OF DETECTED GIANT PLANETS ON THE HABITABLE ZONE IN BINARY
STAR SYSTEMS
Bazso, Akos (Institut für Astrophysik, Wien, AUT)

A COMPARISON OF PLANETARY EMBRYOS COLLISION OUTCOME IN BINARY AND SINGLE STAR
SYSTEMS : PERFECT MERGING VERSUS A MORE REALISTIC MODEL
Bancelin, David (Institute of Astrophysics – University of Vienna, Wien, AUT)

ASTROMETRIC RADIAL VELOCITIES FROM GAIA DR₂ ASTROMETRIC DATA
Liao, Shilong (Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, CHN)

FIELD DISTORTION MODEL BASED ON FREDHOLM INTEGRAL
Zhou, Jianfeng (Center for Astrophysics, Tsinghua University, Beijing, CHN)

USING GAIA DR₂ ASTROMETRIC DATA TO IDENTIFY QSOs
Liao, Shilong (Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, CHN)

A PREDICTED ASTROMETRIC MICROLENSING EVENT BY A NEARBY WHITE DWARF
Smart, Richard (INAF-Osservatorio Astrofisico di Torino, Torino, ITA)

3D KINEMATICS OF THE GALACTIC THIN DISC STARS FROM THE GAIA DR₂ AND PMA DATA
Velichko, Anna (Institute of astronomy of V.N.Karazin KhNU, Kharkiv, UKR)

POTENTIALLY HABITABLE CIRCUMBINARY WORLDS IN THE SOLAR NEIGHBOURHOOD
Shevchenko, Ivan (Pulkovo Observatory, Saint Petersburg, RUS)

MASSIVE IDENTIFICATION OF RESONANT AND CHAOTIC EXOPLANETARY SYSTEMS
Shevchenko, Ivan (Pulkovo Observatory, Saint Petersburg, RUS)

THE GAIA ARCHIVE VISUALISATION SERVICE
Moitinho, André (CENTRA - University of Lisbon, Lisbon, POR)

ON THE EVOLUTION OF THE SCALE HEIGHT OF THE MILKY WAY DISC
Vitorino da Silva, André Filipe (CENTRA - University of Lisbon, Lisbon, POR)

WFIRST MICROLENSING EXOPLANET CHARACTERIZATION WITH HST FOLLOW UP
ASTROMETRY
Bhattacharya, Aparna (University of Maryland College Park, Greenbelt, USA)

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PARTICIPANT LIST

Surname	First Name	Institute
Abbas	Ummi	INAF - Osservatorio Astrofisico di Torino
Ackerl	Christine	Department of Astrophysics, Wien
Aftab	Nafisa	Raman Research Institute
Ajhar	Edward	National Science Foundation
Akhmetov	Volodymyr	Institute of Astronomy V.N. Karazin Kharkiv National University
Akhunov	Talat	National University of Uzbekistan
Akin-olamigoke	Isaac	Federal University Of Technology, Akure
Allen	Christine	Instituto de Astronomía, UNAM
Alves	Joao	Institut für Astrophysik, Wien
Amado	Zeleke Beyoro	Entoto Observatory & Research Center
Aminaei	Amin	University of Oxford
An	Deokkeun	Ewha Womans University
Anders	Friedrich	Leibniz-Institut für Astrophysik Potsdam (AIP)
Anderson	Richard I.	European Southern Observatory
Andersson	B-G	SOFIA Science Center/USRA
Andrews	Sean	Harvard-Smithsonian Center for Astrophysics
Andrews	Jeff	FORTH
Apostolovska	Gordana	Institute of Physics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University
Argyle	Robert	Institute of Astronomy, Cambridge
Arias	Elisa	Observatoire de Paris, SYRTE
Arlot	Jean-Eudes	CNRS IMCCE UMR8028
Arora	Monika	Miranda House, Delhi
Ashenafi	Ghion	Ethiopian Space Science and Technology Institute
Baba	Junichi	National Astronomical Observatory of Japan
Bach	Kiehung	Yonsei University
Bagrov	Alexander V.	INASAN, Moscow
Bancelin	David	Institute of Astrophysics, University of Vienna
Bang	Tae-Yang	Kyungpook National University, Korea
Barbato	Domenico	INAF - Osservatorio Astrofisico di Torino
Barkaoui	Khalid	Cadi Ayyad University, Marrakech
Barres de Almeida	Ulisses	Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro
Baruah	Rulee	HRH The Prince of Wales Institute of Engineering and Technology
Batmunkh	Batbayar	Institute of Astronomy & Geophysics, Mongolian Academy of Sciences
Batten	Alan	retired (Victoria, Canada)
Baumann	Bernhard	Institut für Astrophysik, Wien

Surname	First Name	Institute
Bazso	Akos	Institut für Astrophysik, Wien
Bazzi	Wael	Exosphere Group Ltd
Beasley	Anthony	National Radio Astronomy Observatory
Beitia-Antero	Leire	AEGORA Research Group, Complutense Univ. of Madrid
Bell	Steven	HM Nautical Almanac Office
Bellini	Andrea	STScI
Benkhaldoun	Zouhair	Oukaimeden Observatory, Cadi Ayyad University
Bennett	David	NASA Goddard Space Flight Center
Bhattacharya	Aparna	University of Maryland College Park
Bhattarai	Suresh	Nepal Astronomical Society (NASO)
Bieryla	Allyson	Harvard University
Birkmann	Stephan	European Space Agency
Bland-Hawthorn	Joss	University of Sydney
Boccatto	Caterina	ISTITUTO NAZIONALE DI ASTROFISICA
Boehm	Celine	University of Sydney
Boland	Wilfried	NOVA
Boldea	Afrodita Liliana	University of Craiova, IFIN-HH Magurele, Bucharest
Bovy	Jo	University of Toronto
Boyle	Richard	Vatican Observatory
Brown	David	Specola Vaticana
Brown	Anthony	Leiden Observatory
Broz	Miroslav	Charles University
Bruursema	Justice	United States Naval Observatory
Bruzual	Gustavo	IRyA, UNAM, Campus Morelia
Bunker	Andrew	University of Oxford
Busonero	Deborah	INAF - Osservatorio Astrofisico di Torino
Calderón	Jaime	Red Cedia
Çaliskan	Özcan	Istanbul Üniversitesi
Cameron	Malcolm	Private
Capitaine	Nicole	Observatoire de Paris
Cárdenas-Martínez	Nelli	Escuela Superior de Física y Matemáticas del IPN
Carvalho	Ana	Universidade de Lisboa, Faculdade de Ciências
Casertano	Stefano	STScI
Castejon Molina	Mirian	IAG/USP
Cepas	Vytautas	Vilnius university

Surname	First Name	Institute
Cervantes Sodi	Bernardo	IRyA-UNAM
Cesarsky	Diego	IAS
Chanamé	Julio	Pontificia Universidad Católica de Chile
Charlot	Patrick	Laboratoire d'Astrophysique de Bordeaux
Chauhan	Shipra	Department of Mathematics, Delhi
Chen	Xiaodian	National Observatories of China
Chen	Tao	KTH Royal Institute of Technology
Chen	Bingqiu	Yunnan University
Chin	Yi-nan	Dept. of Physics, Tamkang University
Chingozha	Tawanda	Stellenbosch University
Christensen-Dalsgaard	Jørgen	Aarhus University
Clements	David	Imperial College London
Conrad	Albert	LBT Observatory, University of Arizona
Cori Casimiro	Elio William	Universidad Nacional de Ingeniería
Correia	Alexandre	University of Aveiro
Cridland	Alex	Leiden Observatory
Cruz-Saenz de Miera	Fernando	Konkoly Observatory
Császár	Anna	Eötvös Loránd University
Damas-Segovia	Ancor	Instituto de Astrofísica de Andalucía (IAA-CSIC)
Dambis	Andrey	Sternberg Astronomical Institute
Damdin	Batmunkh	Institute of Astronomy & Geophysics, Mongolian Academy of Sciences
Danielski	Camilla	SAP/CEA-Saclay
Datta	Abhirup	Indian Institute of Technology Indore
de Bruijne	Jos	European Space Agency
De Cicco	Marcelo A.	Observatorio Nacional
de Freitas	Daniel Brito	Federal University of Ceará
de Souza	Rafael	University of North Carolina at Chapel Hill
de Witt	Aletha	HartRAO
de Zeeuw	Tim	Leiden Observatory
Demleitner	Markus	Universität Heidelberg
Dencs	Zoltan	Hungarian Academy of Sciences Research Centre for Astronomy and Earth Sciences
Devillepoix	Hadrien	Desert Fireball Network, Curtin University
Dharmatilake	Patabendi Maddumage	Ministry of Science, Technology and Research, Sri Lanka
Dick	Wolfgang	Bundesamt fuer Kartographie und Geodaesie
Dickel	John	University of New Mexico

Surname	First Name	Institute
Dluzhnevskaya	Olga	Institute of Astronomy, Russian Academy of Sciences
Dominik	Martin	University of St Andrews
Donati	Jean-Francois	CNRS / IRAP / Obs Midi-Pyrenees
Doressoundiram	Alain	Observatoire de Paris
Dorland	Bryan	US Naval Observatory
Dravins	Dainis	Lund Observatory
Drimmel	Ronald	INAF - Osservatorio Astrofisico di Torino
Du	Cuihua	University of Chinese Academy of Sciences
Ducourant	Christine	Laboratoire d'Astrophysique de Bordeaux
Dvorak	Rudolf	Institut für Astrophysik, Wien
Dwivedi	Navin Kumar	Space Research Institute, Austrian Academy of Sciences
Egeland	Ricky	High Altitude Observatory of the National Center for Atmospheric Research
Eggl	Siegfried	NASA Jet Propulsion Laboratory
Ellwarth	Monika	Kiepenheuer Institute for Solar Physics
Enßlin	Torsten	MPI f. Astrophysics
Er	Xinzhong	SWIFAR, Yunnan Univ.
Eriksson	Urban	Dept. of physics, Lund University
Evans	Ian	Harvard-Smithsonian Center for Astrophysics
Evans	Dafydd	Institute of Astronomy, Cambridge
Eyer	Laurent	Observatoire de Genève
Fall	Michael	Space Telescope Science Institute
Fang	Taotao	Xiamen University
Fang	Bess Yiyuan	SYRTE, Observatoire de Paris
Fatka	Petr	Astronomical Institute AS CR
Fedorova	Viktoriya	Pushchino Radio Astronomy Observatory
Ferrándiz	José M.	Universidad de Alicante
Fey	Alan	US Naval Observatory
Finner	Kyle	Yonsei University
Firneis	Maria Gertrude	Institut für Astrophysik, Wien
Fleming	Brian	University of Colorado
Forveille	Thierry	Observatoire de Grenoble
Fragos	Tassos	DARK, Niels Bohr Institute, University of Copenhagen
Frey	Sándor	MTA Research Centre for Astronomy and Earth Sciences
Fritz	Tobias	Instituto de Astrofisico de Canarias
Fu	Jian	Shanghai Observatory

Surname	First Name	Institute
Fukushima	Toshio	National Astronomical Observatory of Japan
G. A.	Shanmugha Sundaram	Amrita University
Gábor	Pavel	Vatican Observatory
Galamez	Maud	CEA paris-Saclay
Galaverni	Matteo	Specola Vaticana
Galindo Guil	Francisco Jose	Nordic Optical Telescope
Gallafassi	Enzzo	Universidade de São Paulo
Gastrow	Michael	Human Sciences Research Council, Cape Town
Gebreegzabihar	Kinfe	Addis Ababa University
Gennaro	Mario	Space Telescope Science Institute
Bourda	Geraldine	Laboratoire d'astrophysique de Bordeaux
Gerják	Tímea	Eötvös Loránd University
Gerstbach	Gottfried	ÖGAA/ÖAV
Gholami	Mahtab	Alzahra University, Tehran
Giacobbe	Paolo	INAF-OATo, Torino
Gilmozzi	Roberto	ESO
Goddi	Ciriaco	Radboud University / Leiden Observatory
Godlowski	Wlodzimierz	Institut of Physics Opole University
Goldmann	Christoph	ÖGAA/Verein Kuffner-Sternwarte
Golubov	Oleksiy	V. N. Karazin Kharkiv National University
Gomez Lopez	Jesus Alberto	Laboratoire d'Astrophysique de Marseille (LAM)
Gordon	David	NVI Inc; NASA GSFC
Gouda	Naoteru	National Astronomical Observatory of Japan
Govender	Kevin	IAU Office of Astronomy for Development
Gross	Richard	Jet Propulsion Laboratory, California Institute of Technology
Gryciuk	Magdalena	Space Research Centre polish Academy of Sciences
Grygar	Jirí	Institute of Physics, Czech Academy of Sci.
Guan	Ju	Institute of High Energy Physics, Beijing
Guennoun	Meryem	Faculty of science SEMLALIA, Cadi Ayyad University
Guinan	Edward	Villanova University
Gullberg	Steven	University of Oklahoma
Gulyaev	Sergei	AUCKLAND UNIVERSITY OF TECHNOLOGY
Guo	Jincheng	Peking University
Gurvits	Leonid	Joint Institute for VLBI ERIC and Delft University of Technology
Hackstein	Stefan	Sternwarte Bergedorf

Surname	First Name	Institute
Hafner	Meinrad	OEGAA
Haika	Anneliese	ÖGAA
Hakimi Pajouh	Hossein	Alzahra University
Hanawa	Tomoyuki	Center for Frontier Science, Chiba University
Handa	Toshihiro	Kagoshima University
Hanes	David	Queen's University Canada
Hartig	Erich	University of Vienna, Astrophysics
Hasan	Syed	Maulana Azad National Urdu University
Hasan	Nivin	Royal Jordanian Geographic Centre- Regional center for space science for western Asia
Hemenway	Mary K	retired - University of Texas at Austin
Henao	Lady	Universidad de Concepción
Henkel	Christian	MPIfR
Hillenbrand	Lynne	California Institute of Technology
Hilton	James	U.S. Naval Observatory
Hobbs	David	Lund Observatory
Hodson	Alistair	Univerisity of Torino
Hoffmann	Susanne	Friedrich-Schiller-Universität Jena
Høg	Erik	Copenhagen University
Hohenkerk	Catherine	HM Nautical Almanac Office
Hojaev	Alisher S.	UB Astronomical Institute of UAS
Hollins	James	Newcastle University
Hron	Josef	Institut für Astrophysik
Hu	Shoucun	Purple Mountain Observatory, Chinese Academy of Sciences
Hu	Renyu	Jet Propulsion Laboratory
Huang	Yang	Yunnan University
Huang	Li-Ching	National Central University
Huber	Daniel	University of Hawaii
Hull	Chat	NAOJ/ALMA
Hunt	Lucas	George Mason University
Hwang	jai-chan	Kyunpook National University
Hypki	Arkadiusz	Institute Astronomical Observatory Adam Mickiewicz University in Poznan
Im	Myungshin	Seoul National University
Inutsuka	Shu-ichiro	Nagoya University
Iorio	Lorenzo	MIUR
Iro	Nicolas	Institut für Astrophysik

Surname	First Name	Institute
Ivanova	Tamara	Institute of applied astronomy of RAS
Ivantsov	Anatoliy	Akdeniz University
Jaervinen	Silva	Leibniz-Institut fuer Astrophysik Potsdam
Jerjen	Helmut	Australian National University
Johnson	Erik	Institute for Astrophysics Goettingen
Jordi	Carme	IEEC, University of Barcelona, ICCUB
Juric	Mario	University of Washington
Jutzi	Martin	University of Bern
Kalari	Venu	Universidad de Chile
Kalirai	Jason	STScI
Kang	Hyunwoo	KASI
Karamiqucham	Behrooz	University of New South Wales
Kartashova	Anna	Institute of Astronomy Russian Academy of Sciences
kasawneh	Awni	Royal Jordanian Geographic Centre- AW Road- RCSSTEWA - AUASS
Kaur	Charanpreet	SGTB Khalsa College, Delhi
Kausch	Wolfgang	University of Innsbruck
Kayihan	H. Aziz	Antalya Sinav College
Kedziora-Chudczer	Lucyna	University of New South Wales
Keil	Andreas	European Research Council
Khramtsov	Vladislav	V.N. Karazin Kharkiv National University
Kiguchi	Masayoshi	KINDAI Universitatem Emerens
Kikwaya Eluo	Jean-Baptiste	Vatican Observatory
Kilic	Yucel	TUBITAK National Observatory
Kim	Young-Soo	Korea Astronomy & Space Science Institute
Kim	Soo Hyun	Kyungpook National University
Kim	Hoil	KASI
Kim	Chun-Hwey	Chungbuk National University
Knežević	Zoran	Serbian Academy of Sciences and Arts
Ko	Jongwan	Korea Astronomy and Space Science Institute
Koekemoer	Anton	Space Telescope Science Institute
Kohler	Susanna	American Astronomical Society
Kong	Deqing	National Astronomical Observatories, Chinese Academy of Sciences
Kouwenhoven	M.B.N. (Thijs)	Xi'an Jiaotong-Liverpool University (XJTLU)
Kovalenko	Nataliya	Astronomical Observatory of Taras Shevchenko National University of Kyiv
Krabbe	Alfred	Deutsches SOFIA Institut

Surname	First Name	Institute
Kraus	Alex	Max-Planck-Institut für Radioastronomie
Kreplin	Alexander	University of Exeter
Krissansen-Totton	Joshua	University of Washington
Krone-Martins	Alberto	Universidade de Lisboa, Faculdade de Ciências
Küffmeier	Michael	ITA Heidelberg
Kumar	Vinay	Zakir Husain Delhi College
Kumar Sharma	Binay	Shaheed Bgagat Singh College, University of Delhi
Kupka	Friedrich	Universität Göttingen
Kuznetsov	Eduard	Ural Federal University
Kuznetsova	Ekaterina	Space Research Institute of the Russian Academy of Sciences (IKI)
Kypriotakis	Ioannis	University of Crete
Langston	Glen	National Science Foundation
Larreina Pinto	Irati	Department of Astrophysics
Lattanzio	John	Monash University
Latzko	Serina T.	Deutsches SOFIA Institut, University of Stuttgart
Lecoq	Edouard	Institut d'Astrophysique Spatiale
Lemaire	Jean Louis	Université Paris Sud - ISMO
Lemaître	Anne	University of Namur
Leschinski	Kieran	University of Vienna, Department of Astrophysics
Li	Jian	Nanjing University
Li	Jian	Beijing Planetarium
Li	Ji	Hebei Normal University
Liang	Yanchun	National Astronomical Observatories, Chinese Academy of Sciences
Liao	Shilong	Shanghai Astronomical Observatory, Chinese Academy of Sciences
Libralato	Mattia	Space Telescope Science Institute
Limoges	Marie-Michèle	Cosmodôme
Lindgren	Lennart	Lund University
Lindqvist	Michael	Onsala Space Observatory
Liu	Xiangkun	Yunnan University
Liu	Mengxu	Huazhong University of Science and technology
Liu	Jia-Cheng	Nanjing University
Liu	Boyang	UWA/ICRAR
Livesay	Leslie	Jet Propulsion Laboratory
Livingston	John	University of Tokyo
Lockman	Felix	Green Bank Observatory

Surname	First Name	Institute
Loibnegger	Birgit	Department of Astrophysics
Longair	Malcolm	Cavendish Laboratory
Lüftinger	Theresa	Institut für Astrophysik
Lutovinov	Alexander	Space Research Institute
Ma	Yuehua	Purple Mountain Observatory, Chinese Academy of Sciences
Ma	Xiang	Institute of High Energy Physics,CAS
Ma	Lu	Xinjiang Astronomical Observatory , Chinese Academy of Sciences
Maca	Thomas	OEGAA
Mackebrandt	Felix	Max Planck Institute for Solar System Research
Magrini	Laura	INAF-Osservatorio Astrofisico di Arcetri
Maindl	Thomas I.	Department of Astrophysics
Makarov	Valeri	US Naval Observatory
Malhotra	Satish	freelance researcher, no affiliation
Malkin	Zinovy	Pulkovo Observatory
Mamajek	Eric	JPL/Caltech
Mamon	Gary	IAP
Mannapova	Kamola	National Univerity of Uzbekistan
Maravelias	Grigoris	Foundation for Research and Technology-Hellas (FORTH), University of Crete
Marcaide	JuanMaria	Universitat de Valencia
Marconi	Marcella	INAF-Osservatorio Astronomico di Capodimonte
Martinez Pillet	Valentin	National Solar Observatory
Martinez-Bautista	Gerardo	Instituto de Astronomía, UNAM
Martínez-Galarza	Rafael	Harvard-Smithsonian Center for Astrophysics
Masiero	Joseph	NASA JPL
Maskoliunas	Marius	Vilnius University
Matsakis	Demetrios	US naval observatory
Matthews	Jaymie	University of British Columbia
McCarthy	Dr. Patrick	Giant Magellan Telescope Organization (GMTO)
McGruder	Charles	Western Kentucky University
McSwain	M. Virginia	Lehigh University
Mehlert	Dörte	Deutsches SOFIA Institut
Meiksin	Avery	Institute for Astronomy
Menezes	Fabian	Universidade Presbiteriana Mackenzie
Menzies	John	SAAO
Michalik	Daniel	European Space Agency ESA/ESTEC

Surname	First Name	Institute
Mickaelian	Areg	Byurakan Astrophysical Observatory (BAO)
Mignard	Francois	Observatoire de la Côte d'Azur
Mikayelyan	Gor	Byurakan Astrophysical Observatory
Milic Zitnik	Ivana	Astronomical Observatory of Belgrade
Minniti	Dante	Universidad Andres Bello - MAS - CATA - VO
Mirtadjieva	Karamat	Ulugh Beg Astronomical Institute
Moitinho	André	CENTRA - University of Lisbon
Mokhele	Khotso	IAU Office of Astronomy for Development
Molaverdikhani	Karan	Max Planck Institute for Astronomy
Monfredini	Thiago	Brazilian Synchrotron Light Laboratory (LNLS/CNPEM)
Montes	David	UCM, Universidad Complutense de Madrid
Montmerle	Thierry	Institut d'Astrophysique de Paris
Mora	Alcione	Aurora Technology BV for ESA
Morcos	Abd El Fady	National Research Institute of Astronomy and Geophysics (NRIAG)
Morris	Brett	University of Washington
Mouawad	Nelly	Lebanese American University
Mu	Xiaoyong	University of Chinese Academy of Sciences
Muraveva	Tatiana	INAF OAS
Mykhalchyshyn	Roman	Yuzhnoye State Design Office
Netopil	Martin	Department of Astrophysics, University of Vienna
Neupane	Sudeep	University of Chile
Newton	Oliver	Institute for Computational Cosmology
Nguyen	Nathen	Universidad de Chile
Nie	Jianyin	Institute of High Energy Physics, Chinese Academy of Sciences
NISHI	Ryoichi	Niigata University
Noh	Hyerim	Korea Astronomy and Space Science Institute
Nuriddinov	Salakhutdin	National University of Uzbekistan
Nurul Huda	Ibnu	SYRTE / Observatoire de Paris
Oertel	Micaela	LUTH, CNRS-Observatoire de Paris
Okamura	Sadanori	University of Tokyo
Okazaki	Atsuo	Hokkai-Gakuen University
Oniosun	Temidayo	Centre for Space Research and Applications
Orosz	Gabor	Xinjiang Astronomical Observatory
Ortiz Leon	Gisela	
Osman	Ahmed	Ministry of education

Surname	First Name	Institute
Oswalt	Terry	Embry-Riddle Aeronautical University
Owusu Acheampong	Silas	Regent University
Özeren	Ferhat Fikri	TÜBİTAK National Observatory / Erciyes University
Pandya	Umangkumar	Pacific Academy Of Higher Education And Research University Udaipur
Pantoja	Blake	Universidad de Chile
Park	Ryan	Jet Propulsion Laboratory
Park	Han-Earl	KASI
Park	Eunsu	School of Space Research, Kyung Hee University
Paulo	Claudio	Universidade Eduardo Mondlane
Paunzen	Ernst	DTPA, Masaryk University
Pawlowski	Marcel	University of California Irvine
Pearce	Sarah	CSIRO
Pei	Zhi-Yuan	Dipartimento di Fisica e Astronomia "Galileo Galilei", Università di Padova
Pei	Qiangyu	Huazhong University of Science and Technology
Peng	Bo	National Astronomical Observatories, CAS
Perger	Krisztina	Eötvös Loránd University
Pilat-Lohinger	Elke	Institut für Astrophysik
Pinter	Sandor	Eötvös Loránd University
Pitjev	Nikolai	St. Petersburg State University
Pitjeva	Elena	Institute of Applied Astronomy of Russian Academy of Sciences
Porras	Antonio J.	Fisk University, Nashville
Pourabdian	Majid	Max Planck Institute for Solar System Research
Pourbaix	Dimitri	FNRS @ IAA.ULB
Priyatikanto	Rhorom	Space Science Center, National Institute of Aeronautics and Space
Proxauf	Bastian	Max-Planck-Institut für Sonnensystemforschung
Prusti	Timo	ESA
Puspitarini	Lucky	Observatorium Bosscha - Institut Teknologi Bandung
Puzia	Thomas H.	Pontificia Universidad Catolica
Qian	Zhihan	Shanghai Astronomical Observatory CAS
Quirrenbach	Andreas	Landessternwarte
Raap	Adriaan	Astronomische Gesellschaft
Ragulskaya	Mariya	Institute of Terrestrial Magnetism (IZMIRAN)
Ranalli	Piero	Lund University
Rattenbury	Nicholas	The University of Auckland
Ratzka	Thorsten	University of Graz / Institute for Physics / IGAM

Surname	First Name	Institute
Regaly	Zsolt	Konkoly Observatory
Renchin	Tsolmon	National University of Mongolia
Ribó	Marc	Institut de Ciències del Cosmos, Universitat de Barcelona (ICCUB) & IEEC
Richer	Harvey	University of British Columbia
Riva	Alberto	INAF - Osservatorio Astrofisico di Torino
Robson	Ian	IAU
Rode-Paunzen	Monika	Österreichische Akademie der Wissenschaften
Rokni	Koorosh	ISA observatory
Rosales Guzmán	Jaime Andrés	University of Concepción
Rossi	Elena Maria	Leiden University
Ruiz-Lara	Tomás	Instituto de Astrofísica de Canarias (IAC)
Rukdee	Surangkha	Pontificia Universidad Católica de Chile
Sabat	Hanna	The Regional Centre for Space Science & Technology Education for Western Asia (RCSSTE-WE)
Safonova	Margarita	M. P. Birla Institute of Fundamental Research
Sahu	Kailash	Space Telescope Science Institute
Sakai	Nobuyuki	NAOJ
Sakuler	Wolfgang	Department of Astrophysics, University of Vienna
Sales Silva	João	Observatório Nacional, Rio de Janeiro
Samec	Ronald	Pisgah Astronomical Research Institute
Saripalli	Lakshmi	Raman Research Institute
Sato	Shuichi	Hosei University
Sato	Katsushiro	Meisei University, School of Science and Engineering
Saucedo Morales	Julio Cesar	Universidad de Sonora
Sawangwit	Utane	NARIT
Schilizzi	richard	University of Manchester
Schoeller	Markus	European Southern Observatory
Schouten	Johannes	Delft University of Technology
Schulz	Bernhard	Deutsches SOFIA Institut, Universität Stuttgart
Schwarz	Dominik	Bielefeld University
Scott	Nicholas	NASA ARC
Sekiguchi	Kazuhiro	National Astronomical Observatory of Japan
Seok	Ji Yeon	NAOC
Shabala	Stas	University of Tasmania
Shan	Yutong	Harvard University
Shao	Zhengyi	Shanghai Astronomical Obs., CAS

Surname	First Name	Institute
Sharda	Piyush	Birla Institute of Technology and Science
Sharma	Renu	International Centre for Radio Astronomy Research (ICRAR) UWA
Shevchenko	Ivan	Pulkovo Observatory
Shi	ChangSheng	Hainan University
Shibahashi	Hiramoto	University of Tokyo
Shirasaki	Yuji	NAOJ
Shustov	Boris	Institute of Astronomy, Moscow
Shvelidze	Teimuraz	Abastumani Astrophysical Observatory
Simpemba	Prosperity	Southern African Regional Office of Astronomy for Development (SAROAD)
Skurikhina	Elena	IAA RAS
Slyusarev	Ivan	V. N. Karazin Kharkiv National University
Smart	Richard	INAF-Osservatorio Astrofisico di Torino
Sohn	Bong Won	Korea Astronomy and Space Science Institute
Soja	Benedikt	Jet Propulsion Laboratory, California Institute of Technology
Son	Edwin J.	National Institute for Mathematical Sciences, Daejeon
Soonthornthum	Boonrucksar	National Astronomical Research Institute of Thailand (NARIT)
Sosa	Andrea	CURE-Universidad de la República, Rocha
Sourchay	Jean	Observatoire de Paris
Sozzetti	Alessandro	INAF, Torino
Stapelfeldt	Karl	Jet Propulsion Laboratory
Starovoit	Elena	Pushchino Radio Astronomy Observatory
Steslicki	Marek	Space Research Centre Polish Academy of Sciences
Stewart	Susan	US Naval Observatory
Stiele	Holger	National Tsing Hua University
Strassmeier	Klaus	AIP, Potsdam
Stuardi	Chiara	University of Bologna
Su	Kate	Steward Observatory, University of Arizona
Subrahmanyam	Ravi	Raman Research Institute
Subramanian	Kandaswamy	Inter University Centre for Astronomy and Astrophysics
Sugitani	Koji	Nagoya City University
Suhay	Erika Lucia	Romanian National Astronomy Committee
Sung	Hyun-II	Korea Astronomy and Space Science Institute
Suwannajak	Chutipong	National Astronomical Research Institute of Thailand (Public Organization)
Suzuki	Nao	Kavli IPMU, University of Tokyo
Sysoliatina	Kseniia	Astronomisches Rechen-Institut

Surname	First Name	Institute
Szaforz	Zaneta	Astronomical Institute, University of Wroclaw
Tamaoki	Shohei	Nagoya City University
Tancredi	Gonzalo	Departamento de Astronomia, Facultad de Ciencias, Universidad de la Republica
Tang	Qingwen	Nanchang University
Tang	Kai	Shanghai Astronomical Observatory, CAS
Tanimura	Hideki	L'Institut d'Astrophysique Spatiale (IAS)
Tao	Lian	Institute of High Energy Physics, Chinese Academy of Sciences
Tarczay-Nehéz	Dóra	Hungarian Academy of Sciences Research Centre for Astronomy and Earth Sciences
Taris	François	Paris Observatory
Theis	Christian	Planetarium Mannheim
Tholen	David	University of Hawaii
Thong	Le	Institute for Computational Science
Thuillot	William	IMCCE-Paris Observatory
Tian	Yong	Institute of Astronomy, National Central University
Tichy	Milos	Klet Observatory
Titov	Oleg	Geoscience Australia
Torki	Maryam	University of Zanjan
Torres	Santiago	Leiden Observatory
Tsinganos	Kanaris	University of Athens
Tsukamoto	Yusuke	Kagoshima University
Udalski	Andrzej	Warsaw University Observatory
Upadhyay	Devendra Raj	Amrit Campus (ASCOL), Tribhuvan University
Urakawa	Seitaro	Japan Spaceguard Association
Valerdi	Mabel	Instituto de Astronomia UNAM
Valls-Gabaud	David	Observatoire de Paris
van der Hulst	Thijs	Kapteyn Astronomical Insitute, University of Groningen
van Langevelde	Huib	JIVE/Leiden
Vasconez	Christian	Escuela Politecnica Nacional
Vavilova	Iryna	Main Astronomical Observatory, NAS of Ukraine
Velichko	Anna	Institute of astronomy of V.N.Karazin KhNU
Vickers	John	Shanghai Astronomical Observatory
Villicana Pedraza	Ilhuiyolitzin	NEW MEXICO STATE UNIVERSITY (DACC)
Voelker	Anna	The Ohio State University
Vokrouhlicky	David	Institute of Astronomy
Wagner	Stefan	LSW, ZAH, U Heidelberg

Surname	First Name	Institute
Wainscoat	Richard	University of Hawaii, Institute for Astronomy
Wambsganss	Joachim	Zentrum für Astronomie der Uni Heidelberg
Wandel	Amri	Hebrew University of Jerusalem
Wang	Zhaoyu	Shanghai Jiao Tong University
Wang	Shu	Peking University
Wang	Qiang	University of Manchester
Wang	Hongjuan	Beijing Institute of Graphic Communication
Watkins	Laura	Space Telescope Science Institute
Wei	Erhu	School of Geodesy and Geomatics, Wuhan University
Weiss	Werner Wolfgang	Institut für Astrophysik
Wienen	Marion	University of Exeter
Winter	Othon	UNESP
Wislocka	Agata	University of Innsbruck
Wu	Bobing	Institute of High Energy Physics, CAS
Wuchterl	Günther	Kuffner-Sternwarte, Wien
Wyrzykowski	Lukasz	Warsaw University Astronomical Observatory
Xiao	Lin	University of Science and Technology of China
Xiong	Shaolin	Institute of High Energy Physics, Chinese Academy of Sciences
Xu	Siyao	University of Wisconsin-Madison
Yadav	Sushil	Maharaja Agrasen College, University of Delhi
Yamada	Yoshiyuki	Kyoto University
Yamaoka	Hitoshi	National Astronomical Observatory of Japan
Yanamandra-Fisher	Padma	Space Science Institute
Yang	Ming	Nanjing University
Yang	Dan	Max Planck Institute for Solar System Research
Yano	Taihei	National Astronomical Observatory of Japan
Yao	Jian	Shanghai Jiao Tong University
Yates	Patrick	University of Tasmania
Ye	Shuhua	Shanghai Astronomical Observatory CAS
Yoon	Suk-Jin	Yonsei University
Yu	Xiaoxia	Institute of High Energy Physics, Chinese Academy of Sciences
Yuna	Dwi Yoshafetri	Astronomy Department, Institut Teknologi Bandung
Zacharias	Norbert	U.S. Naval Observatory
Zamani	Niloufar	Alzahra university
Zdanavicius	Justas	Vilnius University

Surname	First Name	Institute
Zhang	Yanxia	National Astronomical Observatories, Chinese Academy of Sciences
Zhang	Haiyan	National Astronomical Observatories of CAS
Zhao	Yongheng	National Astronomical Observatories of China
Zhao	Ping	Harvard-Smithsonian CfA
Zhao	He	Beijing Normal University
Zhao	Gang	National Astronomical Observatories, Chinese Academy of Sciences
Zheng	Weimin	Shanghai Astronomical Observatory, Chinese Academy of Sciences
Zhong	Cuixiang	Jiangxi Normal University
Zhou	Jianfeng	Center for Astrophysics, Tsinghua University
Zhu	Yongtian	Nanjing Institute of Astronomical Optics & Technology, CAS
Zhu	Jin	Beijing Planetarium
Zinnecker	Hans	Deutsches SOFIA Institut
Zschocke	Sven	Technische Universität Dresden
Zucker	Shay	Tel Aviv University