

30th Young Scientists' Conference on Astronomy and Space Physics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Official opening

Monday 22 April 2024 09:00 (30 minutes)

Contribution ID: 2

Type: **not specified**

Evolution of galaxies in the large scale structure of the Universe

Monday 22 April 2024 09:30 (45 minutes)

Presenter: Prof. POLLO, Agnieszka (National Centre for Nuclear Research, Warszawa-Swierk, Poland)

Session Classification: Extragalactic astrophysics

Contribution ID: 3

Type: **not specified**

A story of streams: the dynamical friction effect on the tails of globular clusters

Monday 22 April 2024 10:15 (15 minutes)

Author: TRIANTAFYLLAKI, Aikaterini Niovi (Tartu Observatory, Tartu, Estonia)

Co-author: KIPPER, R.

Presenter: TRIANTAFYLLAKI, Aikaterini Niovi (Tartu Observatory, Tartu, Estonia)

Session Classification: Extragalactic astrophysics

Contribution ID: 4

Type: **not specified**

SDSS-galaxies with Polar Ring: compiling a training sample for deep learning methods

Monday 22 April 2024 10:30 (15 minutes)

Author: HETMANTSEV, Oleksandr (Main Astronomical Observatory of NASU, Kyiv, Ukraine)

Co-authors: SHPORTKO, A.; DOBRYCHEVA, D.; NABABKIN, D.; VAVILOVA, I.; GUGNIN, O.

Presenter: HETMANTSEV, Oleksandr (Main Astronomical Observatory of NASU, Kyiv, Ukraine)

Session Classification: Extragalactic astrophysics

Contribution ID: 5

Type: **not specified**

Multiwavelength analysis of the galaxy NGC 3521

Monday 22 April 2024 10:45 (15 minutes)

Author: PASTOVEN, Olena (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: DOBRYCHEVA, D.; VAVILOVA, I.; KOMPANIETS, O.

Presenter: PASTOVEN, Olena (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Extragalactic astrophysics

Contribution ID: 6

Type: **not specified**

Direct detection of Lyman Continuum leakers at $1 < z < 1.6$

Monday 22 April 2024 11:00 (15 minutes)

Author: DHIWAR, Suraj (Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, Maharashtra, India)

Co-authors: SMITH, B.; MONDAL, C.; TEPLITZ, H. I.; SAHA, K.; RAFELSKI, M.; WINDHORST, R. A.; MAULICK, S.

Presenter: DHIWAR, Suraj (Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, Maharashtra, India)

Session Classification: Extragalactic astrophysics

Contribution ID: 7

Type: **not specified**

New capability for investigation of the orientation of galaxies in clusters

Monday 22 April 2024 11:15 (15 minutes)

Author: MRZYGLÓD, Blazej (Institute of Physics, Uniwersytet Opolski, Poland)

Co-author: GODLOWSKI, W.

Presenter: MRZYGLÓD, Blazej (Institute of Physics, Uniwersytet Opolski, Poland)

Session Classification: Extragalactic astrophysics

Contribution ID: 8

Type: **not specified**

Where can we find galaxy mergers: under-dense or over-dense environments?

Monday 22 April 2024 12:15 (15 minutes)

Author: SURESHKUMAR, Unnikrishnan (Wits Centre for Astrophysics, University of the Witwatersrand, Johannesburg, South Africa)

Presenter: SURESHKUMAR, Unnikrishnan (Wits Centre for Astrophysics, University of the Witwatersrand, Johannesburg, South Africa)

Session Classification: Extragalactic astrophysics

Contribution ID: 9

Type: **not specified**

Galaxy merger features concealed in the background

Monday 22 April 2024 12:30 (15 minutes)

Author: SUELVES, Luis (National Center for Nuclear Research (NCBJ), Poland)

Presenter: SUELVES, Luis (National Center for Nuclear Research (NCBJ), Poland)

Session Classification: Extragalactic astrophysics

Contribution ID: **10**

Type: **not specified**

Multiwavelength properties of the low-redshift isolated galaxies with active nuclei

Monday 22 April 2024 12:45 (15 minutes)

Author: KOMPANIETS, Olena (Main Astronomical Observatory of NASU, Kyiv, Ukraine)

Co-authors: POLLO, A.; VAVILOVA, I.; MALEK, K.

Presenter: KOMPANIETS, Olena (Main Astronomical Observatory of NASU, Kyiv, Ukraine)

Session Classification: Extragalactic astrophysics

Contribution ID: 11

Type: **not specified**

Covering Factor in AGNs: the role of contaminations

Monday 22 April 2024 13:00 (15 minutes)

Author: RALOWSKI, Mateusz (Jagiellonian University, Krakow, Poland)

Co-authors: POLLO, A.; HRYNIEWICZ, K.; MALEK, K.

Presenter: RALOWSKI, Mateusz (Jagiellonian University, Krakow, Poland)

Session Classification: Extragalactic astrophysics

Contribution ID: 12

Type: **not specified**

Outer gravitational potential of an elliptical torus with inhomogeneous density distribution

Monday 22 April 2024 13:15 (15 minutes)

Author: SKOLOTA, Serhii (Institute of Astronomy of V.N. Karazin Kharkiv National University, Kharkiv, Ukraine)

Co-author: BANNIKOVA, E.

Presenter: SKOLOTA, Serhii (Institute of Astronomy of V.N. Karazin Kharkiv National University, Kharkiv, Ukraine)

Session Classification: Extragalactic astrophysics

Contribution ID: 13

Type: **not specified**

Gravitational lensing effects on a homogeneous torus with a central mass

Monday 22 April 2024 13:30 (15 minutes)

Author: ILCHENKO, Denys

Co-author: BANNIKOVA, E.

Presenter: ILCHENKO, Denys

Session Classification: Extragalactic astrophysics

Contribution ID: 14

Type: **not specified**

Probing SMBH growth and its dependence on stellar mass and star formation rate in low-redshift galaxies

Monday 22 April 2024 13:45 (15 minutes)

Author: TORBANIUK, Olena (Department of Physics and Astronomy 'Augusto Righi', University of Bologna, Bologna, Italy)

Co-authors: GEORGAKAKIS, A.; VIGNALI, C.; CIVANO, F.; CARRERA, F.J.; PAOLILLO, M.; D'ABRUSCO, R.

Presenter: TORBANIUK, Olena (Department of Physics and Astronomy 'Augusto Righi', University of Bologna, Bologna, Italy)

Session Classification: Extragalactic astrophysics

Contribution ID: 15

Type: **not specified**

Studies on Eccentric Kozai Resonances for Equal Mass Hierarchical Triples

Monday 22 April 2024 14:00 (15 minutes)

Author: HAO, Wei (Ludwig-Maximilians-Universität München, München, Germany)

Co-authors: FLAMMINI DOTTI, F.; KOUWENHOVEN, M.B.N.

Presenter: HAO, Wei (Ludwig-Maximilians-Universität München, München, Germany)

Session Classification: Extragalactic astrophysics

Contribution ID: 16

Type: **not specified**

X-ray spectra of binary nuclei of galaxies

Monday 22 April 2024 15:10 (15 minutes)

Author: BUT, Maksym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-author: TUGAY, A. V.

Presenter: BUT, Maksym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Extragalactic astrophysics

Contribution ID: 17

Type: **not specified**

uGMRT analysis of a Quasar showing extreme variation in X-ray flux

Monday 22 April 2024 15:25 (5 minutes)

Author: CHHIPA, Ayushi (Indian Institute of Astrophysics (IIA), India , Bengaluru, Karnataka, India)

Co-authors: NAYANA, AJ; BAGHEL, J.; VIVEK, M.; KHARB, P.

Presenter: CHHIPA, Ayushi (Indian Institute of Astrophysics (IIA), India , Bengaluru, Karnataka, India)

Session Classification: Extragalactic astrophysics

Contribution ID: 18

Type: **not specified**

Unveiling the fractal nature of star formation of the Small Magellanic Cloud with UVIT/AstroSat

Monday 22 April 2024 15:30 (5 minutes)

Author: HOTA, Sipra

Co-author: DE GRIJS, R.

Presenter: HOTA, Sipra

Session Classification: Extragalactic astrophysics

Contribution ID: 19

Type: **not specified**

Environmental dependencies of galaxy properties in the southern regions of GAMA survey

Monday 22 April 2024 15:35 (5 minutes)

Author: JOY, Koti (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala, India)

Co-authors: NARAYANAN, A.; SURESHKUMAR, U.

Presenter: JOY, Koti (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala, India)

Session Classification: Extragalactic astrophysics

Contribution ID: 20

Type: **not specified**

The study of extended radio galaxies in MERGHERS fields

Monday 22 April 2024 15:40 (5 minutes)

Author: MTHEMBU, Banele (University of KwaZulu-Natal, Westville, South Africa)

Presenter: MTHEMBU, Banele (University of KwaZulu-Natal, Westville, South Africa)

Session Classification: Extragalactic astrophysics

Contribution ID: 21

Type: **not specified**

How exoplanet demographics missions can constrain planet formation

Tuesday 23 April 2024 14:15 (45 minutes)

Author: Dr RANC, Clément (Institut d'Astrophysique de Paris, Paris, France))

Presenter: Dr RANC, Clément (Institut d'Astrophysique de Paris, Paris, France))

Session Classification: Solar system & extrasolar planets

Contribution ID: 22

Type: **not specified**

Statistical methods for variability studies

Tuesday 23 April 2024 12:00 (45 minutes)

Author: Dr TARNOPOLSKI, Mariusz (Institute of Astronomy, Nicolaus Copernicus University, Torun, Poland)

Presenter: Dr TARNOPOLSKI, Mariusz (Institute of Astronomy, Nicolaus Copernicus University, Torun, Poland)

Session Classification: Data collection and analysis

Contribution ID: 23

Type: **not specified**

LNM-SNClass - Large Number of Models Supernova Classifier

Tuesday 23 April 2024 12:45 (15 minutes)

Author: PYSHNA, Oleksandra (The Astronomical Observatory of the Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: BARANSKY, A.; MOROZOV, V.

Presenter: PYSHNA, Oleksandra (The Astronomical Observatory of the Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Data collection and analysis

Contribution ID: 24

Type: **not specified**

Inferring cosmological parameters with fully connected neural networks

Tuesday 23 April 2024 13:00 (15 minutes)

Author: RUDAKOVSKYI, Anton (Bogolyubov Institute for Theoretical Physics NASU, Kyiv, Ukraine)

Co-authors: ADZHYMAMBETOV, M.; GUGNIN, O.

Presenter: RUDAKOVSKYI, Anton (Bogolyubov Institute for Theoretical Physics NASU, Kyiv, Ukraine)

Session Classification: Data collection and analysis

Contribution ID: 25

Type: **not specified**

Neural network applied to telescope pointing inaccuracy model.

Tuesday 23 April 2024 13:15 (15 minutes)

Author: ZHABOROVSKYY, Vitaliy (Main Astronomical Observatory, NASU, Kyiv, Ukraine)

Co-authors: MEDVEDSKY, M.; CHOLIY, V.; PAP, V.; SEMENENKO, V.

Presenter: ZHABOROVSKYY, Vitaliy (Main Astronomical Observatory, NASU, Kyiv, Ukraine)

Session Classification: Data collection and analysis

Contribution ID: 26

Type: **not specified**

Characterization of CMOS Cameras for the LAST Optical Telescope

Tuesday 23 April 2024 13:30 (15 minutes)

Author: PROVOLOVSKA, Daryna (Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Presenter: PROVOLOVSKA, Daryna (Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine)

Session Classification: Data collection and analysis

Contribution ID: 27

Type: **not specified**

Simulating planetary systems in star clusters with LPS+ code

Tuesday 23 April 2024 15:00 (15 minutes)

Author: WU, Kai (Xi'an Jiaotong-Liverpool University, Suzhou, Jiangsu, China)

Co-author: KOUWENHOVEN, M.B.N.

Presenter: WU, Kai (Xi'an Jiaotong-Liverpool University, Suzhou, Jiangsu, China)

Session Classification: Solar system & extrasolar planets

Contribution ID: 28

Type: **not specified**

The role of the star cluster environment in shaping the dynamical evolution of planets

Tuesday 23 April 2024 15:15 (15 minutes)

Author: FLAMMINI DOTTI, Francesco Maria (University of Heidelberg, Heidelberg, Germany)

Co-authors: XU CAI, M.; KOUWENHOVEN, M.B.N.; CAPUZZO DOLCETTA, R.; SPURZEM, R.; QI, S.; HAO, W.

Presenter: FLAMMINI DOTTI, Francesco Maria (University of Heidelberg, Heidelberg, Germany)

Session Classification: Solar system & extrasolar planets

Contribution ID: 29

Type: **not specified**

Probing the possible causes of Transit Timing Variation in TrES-2b using TESS data

Tuesday 23 April 2024 15:30 (15 minutes)

Author: BISWAS, Shraddha (Indian centre for space physics, Kolkata, West Bengal, India)

Co-author: BISHT, D.

Presenter: BISWAS, Shraddha (Indian centre for space physics, Kolkata, West Bengal, India)

Session Classification: Solar system & extrasolar planets

Contribution ID: 30

Type: **not specified**

Slit and Slit less Transmission Spectroscopy Using 2m Himalayan Chandra Telescope

Tuesday 23 April 2024 15:45 (15 minutes)

Author: MANJUNATH, Bestha (Indian Institute of Astrophysics, Bengaluru, Karnataka, India)

Co-authors: SURYA, A.; PARVATHY, M.; SIVARANI, T.; ATHIRA, U.

Presenter: MANJUNATH, Bestha (Indian Institute of Astrophysics, Bengaluru, Karnataka, India)

Session Classification: Solar system & extrasolar planets

Contribution ID: 31

Type: **not specified**

Habitability study of the exoplanets by characterizing their atmospheres

Tuesday 23 April 2024 16:00 (15 minutes)

Author: SINGLA, Manika (Indian Institute of Astrophysics, Bengaluru, Karnataka, India)

Presenter: SINGLA, Manika (Indian Institute of Astrophysics, Bengaluru, Karnataka, India)

Session Classification: Solar system & extrasolar planets

Contribution ID: 32

Type: **not specified**

Discovery Of A Relation Between The Planetary Parameters Of Earth, Mars, Jupiter And Saturn

Tuesday 23 April 2024 16:45 (15 minutes)

Author: SAXENA, Rajat (Interdisciplinary School of Science, Savitribai Phule Pune University, Pune, Maharashtra, India)

Presenter: SAXENA, Rajat (Interdisciplinary School of Science, Savitribai Phule Pune University, Pune, Maharashtra, India)

Session Classification: Solar system & extrasolar planets

Contribution ID: 33

Type: **not specified**

Ground-based high-resolution spectroscopic observations & analysis of saturn & rings

Tuesday 23 April 2024 17:00 (15 minutes)

Author: MENON, Parvathy (Indian Institute of Astrophysics, Bengaluru, India)

Co-authors: SKEMER, A.; SURYA, A.; MANJUNATH, B; BANYAL, R.; RAJAGURU, S. P.; THIRUPATHI, S.

Presenter: MENON, Parvathy (Indian Institute of Astrophysics, Bengaluru, India)

Session Classification: Solar system & extrasolar planets

Contribution ID: 34

Type: **not specified**

Detection of the C2 Swan bands in the spectrum of the hot Jupiter HAT-P-1b

Tuesday 23 April 2024 17:15 (15 minutes)

Author: POKHVALA, Serhii (MAO NASU, Kyiv, Ukraine)

Co-author: ZHILYAEV, B.

Presenter: POKHVALA, Serhii (MAO NASU, Kyiv, Ukraine)

Session Classification: Solar system & extrasolar planets

Contribution ID: 35

Type: **not specified**

Meteorological mapping of a gaseous worlds

Tuesday 23 April 2024 17:30 (15 minutes)

Author: AKHMETSHYN, Roman (McGill University, Montreal, Quebec, Canada)

Co-authors: ARTIGAU, E.; COWAN, N.; TAN, X.

Presenter: AKHMETSHYN, Roman (McGill University, Montreal, Quebec, Canada)

Session Classification: Solar system & extrasolar planets

Contribution ID: 36

Type: **not specified**

The Search For Neos As Potential Candidates For Use In Space Missions To Venus And Mars

Tuesday 23 April 2024 17:45 (15 minutes)

Author: KASIANCHUK, Arsenii (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-author: RESHETNYK, V.

Presenter: KASIANCHUK, Arsenii (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Solar system & extrasolar planets

Contribution ID: 37

Type: **not specified**

NUV-VIS spectroscopy of primitive asteroids

Tuesday 23 April 2024 18:00 (15 minutes)

Author: MYKHAILOVA, Sofia (Institute Astronomical Observatory, Faculty of Physics, Adam Mickiewicz University, Poznan, Poland)

Co-author: KWIATKOWSKI, T.

Presenter: MYKHAILOVA, Sofia (Institute Astronomical Observatory, Faculty of Physics, Adam Mickiewicz University, Poznan, Poland)

Session Classification: Solar system & extrasolar planets

Contribution ID: 38

Type: **not specified**

Photometry, polarimetry, spectrometry of the comet of the Jupiter family 108P/Ciffreo

Tuesday 23 April 2024 18:15 (15 minutes)

Author: KULISH, Kateryna (Comenius University, Bratislava, Slovak Republic)

Co-authors: LUK'YANYK, I.; IVANOVA, O.

Presenter: KULISH, Kateryna (Comenius University, Bratislava, Slovak Republic)

Session Classification: Solar system & extrasolar planets

Contribution ID: 39

Type: **not specified**

Multicolour photometric study of the new WZ Sge-type variable

Wednesday 24 April 2024 11:00 (15 minutes)

Author: BILODID, Mykyta (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: SHUGAROV, S.; MARSAKOVA, V.

Presenter: BILODID, Mykyta (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 40

Type: **not specified**

Exploring Superhump Dynamics and Correlation of Physical Parameters in Cataclysmic Variables

Wednesday 24 April 2024 11:15 (15 minutes)

Author: DZYGUNENKO, Andrii (Astronomical Observatory of the Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-author: BARANSKY, A.

Presenter: DZYGUNENKO, Andrii (Astronomical Observatory of the Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 41

Type: **not specified**

Variability of B supergiant star ρ Leo

Wednesday 24 April 2024 11:30 (15 minutes)

Author: CHECHA, Vitalii (Tartu Observatory, Tõravere, Tartu maakond, Estonia)

Co-authors: ARET, A.; CHRISTEN, A.; AVILA, G.; ARAYA, I.

Presenter: CHECHA, Vitalii (Tartu Observatory, Tõravere, Tartu maakond, Estonia)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 42

Type: **not specified**

New insight onto δ Scuti and CP stars thanks to TESS data

Wednesday 24 April 2024 11:45 (45 minutes)

Presenter: Dr KHALACK, Viktor (Université de Moncton, Moncton, New Brunswick, Canada)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 43

Type: **not specified**

Research of magnetic field in three delta Scuti stars using the LSD method

Wednesday 24 April 2024 12:30 (15 minutes)

Author: SLIUSARENKO, Marharyta (Université de Moncton, Moncton, New Brunswick, Canada)

Co-author: KHALACK, V.

Presenter: SLIUSARENKO, Marharyta (Université de Moncton, Moncton, New Brunswick, Canada)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 44

Type: **not specified**

Revealing the Nature of the Emission Line Star HD 50138

Wednesday 24 April 2024 12:45 (15 minutes)

Author: BUROUGHES, Holly (University of North Carolina at Greensboro, Greensboro, USA)

Co-authors: AARNIO, A.; MIROSHNICHENKO, A.; DANFORD, S.; ZHARIKOV, S.

Presenter: BUROUGHES, Holly (University of North Carolina at Greensboro, Greensboro, USA)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 45

Type: **not specified**

Variability of the White Dwarf Spin Periods in the Intermediate Polars

Wednesday 24 April 2024 13:30 (15 minutes)

Author: BREUS, Vitalii (Odesa National Maritime University, Odesa, Ukraine)

Co-authors: ANDRONOV, I.L.; PETRIK, K.; DUBOVSKY, P.

Presenter: BREUS, Vitalii (Odesa National Maritime University, Odesa, Ukraine)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 46

Type: **not specified**

Photometric study of light curves of three selected dwarf novae

Wednesday 24 April 2024 13:45 (15 minutes)

Author: ANDRIIV, Yurii (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: ANDREEV, M.; SHUGAROV, S.; KRUSHEVSKA, V.

Presenter: ANDRIIV, Yurii (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 47

Type: **not specified**

Photo-ionization structures of PN IC2003 with WR central star

Wednesday 24 April 2024 14:00 (15 minutes)

Author: K., Khushbu (Indian Institute of Astrophysics, Bangalore, India)

Co-author: MUTHUMARIAPPAN, C.

Presenter: K., Khushbu (Indian Institute of Astrophysics, Bangalore, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 48

Type: **not specified**

Investigation of open cluster Trumpler 12 using Gaia DR3 Data

Wednesday 24 April 2024 14:15 (15 minutes)

Author: BISHT, Devendra (Indian Centre for Space Physics, Kolkata, West Bengal, India)

Presenter: BISHT, Devendra (Indian Centre for Space Physics, Kolkata, West Bengal, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 49

Type: **not specified**

UOCS. XIII. Study of the FUV bright stars in the open cluster NGC 2420 using ASTROSAT

Wednesday 24 April 2024 14:30 (15 minutes)

Author: DATTATREY, Arvind (Aryabhata Research Institute of Observational Sciences, , Manora Peak Nainital, 263001, India)

Co-authors: DATTATREY, A. K.; SUBRAMANIAM, A.; BISHT, D.; RANGWAL, G.; SAGAR, R.; YADAV, R.K.S.

Presenter: DATTATREY, Arvind (Aryabhata Research Institute of Observational Sciences, , Manora Peak Nainital, 263001, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 50

Type: **not specified**

Exploring Stellar Cluster and Feedback-driven Star Formation in the Galactic Mid-infrared Bubble [HKS2019] E70

Wednesday 24 April 2024 14:45 (15 minutes)

Author: VERMA, Aayushi (Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital, India)

Co-authors: GHOSH, A.; OJHA, D. K.; KAUR, H.; MALLICK, K. K.; DEWANGAN, L.; PANWAR, N.; YADAV, R. K.; PANDEY, R.; SHARMA, S.; CHAND, T.

Presenter: VERMA, Aayushi (Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 51

Type: **not specified**

Multiwavelength investigation of the star formation activity towards the galactic cloud g13.89- 0.47

Wednesday 24 April 2024 15:00 (15 minutes)

Author: K K, Sangeetha (University of Kerala, Kerala, India)

Co-author: VEENA, V. S.

Presenter: K K, Sangeetha (University of Kerala, Kerala, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 52

Type: **not specified**

The photometric observation of flares on AD Leo

Wednesday 24 April 2024 15:15 (5 minutes)

Author: SCHMERCZ, Blanka (Konkoly Observatory, Budapest, Hungary)

Presenter: SCHMERCZ, Blanka (Konkoly Observatory, Budapest, Hungary)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 53

Type: **not specified**

Unveiling the Spectral Profile of the Chemically Peculiar Star V* AL Col

Wednesday 24 April 2024 15:20 (5 minutes)

Author: CASTRO, Nicolas (Universidad de Concepción, Concepción, Chile)

Co-authors: SANTOSH, J.; ROSALES, J.A.

Presenter: CASTRO, Nicolas (Universidad de Concepción, Concepción, Chile)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 54

Type: **not specified**

Follow-up of selected CV candidates from Gaia Alerts

Wednesday 24 April 2024 15:25 (5 minutes)

Author: KAZIEMOVA, Kristina (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-author: SIMON, A.

Presenter: KAZIEMOVA, Kristina (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 55

Type: **not specified**

SN2017hcc –a comparative study of type-IIIn SNe at similar epochs

Wednesday 24 April 2024 15:30 (5 minutes)

Author: V, Sethulakshmi (Indian Institute of Astrophysics (IIA), Koramangala, Bangalore, India)

Co-author: FIROZA SUTARIA, K.

Presenter: V, Sethulakshmi (Indian Institute of Astrophysics (IIA), Koramangala, Bangalore, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 56

Type: **not specified**

Deep-learning classification of eclipsing binaries

Wednesday 24 April 2024 15:35 (5 minutes)

Author: MARKUS, Yana (Pavol Jozef Safarik University, Kosice, Slovakia)

Co-author: PARIMUCHA, Š.

Presenter: MARKUS, Yana (Pavol Jozef Safarik University, Kosice, Slovakia)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 57

Type: **not specified**

A Multiwavelength Study of Be/X-ray Binary Stars

Wednesday 24 April 2024 15:40 (5 minutes)

Author: NDLOVU, Thuto Praisegod (University of KwaZulu-Natal (UKZN), Durban, KwaZulu- Natal, South Africa)

Presenter: NDLOVU, Thuto Praisegod (University of KwaZulu-Natal (UKZN), Durban, KwaZulu- Natal, South Africa)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 58

Type: **not specified**

Gaia DR3 View on Gum 31

Wednesday 24 April 2024 15:45 (5 minutes)

Presenter: A A, Renjithmon (MG University Kerala , Kerala, India)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 59

Type: **not specified**

Modeling Atomic Diffusion, Surface Pulsations and Binary Interactions in HgMn Stars

Wednesday 24 April 2024 15:50 (5 minutes)

Author: ALLISON, Jay (Université de Moncton, Moncton, New Brunswick, Canada)

Co-authors: LOVEKIN, C.; LEBLANC, F.; SLIUSARENKO, M.; KHALACK, V.

Presenter: ALLISON, Jay (Université de Moncton, Moncton, New Brunswick, Canada)

Session Classification: Stellar astrophysics and interstellar medium

Contribution ID: 60

Type: **not specified**

Atmosphere aerosol contamination over Ukraine and Kyiv city in connection with russian invasion

Thursday 25 April 2024 08:00 (15 minutes)

Author: WEI, Xuanyi (Jilin University, Changchun, JiLin, China)

Co-author: YUKHYMCHUK, Y.

Presenter: WEI, Xuanyi (Jilin University, Changchun, JiLin, China)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 61

Type: **not specified**

Atmospheric carbon monoxide and ozone profiles data processing of simultaneous measurement by ground-based radiometer RSO3CO-120-1

Thursday 25 April 2024 08:15 (15 minutes)

Author: SHI, Yu (Jilin University, Changchun, JiLin, China)

Presenter: SHI, Yu (Jilin University, Changchun, JiLin, China)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 62

Type: **not specified**

Ground-based microwave radiometer with a cooling front-end for atmospheric O₃ and CO altitude profile study

Thursday 25 April 2024 08:30 (15 minutes)

Author: WANG, Lidong (Jilin University, Changchun, JiLin, China)

Presenter: WANG, Lidong (Jilin University, Changchun, JiLin, China)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 63

Type: **not specified**

Statistical Occurrence of Polar Cap Sporadic-Es

Thursday 25 April 2024 08:45 (15 minutes)

Author: RAVISHANKAR, Anitha (University of Calgary, Calgary, Canada)

Co-authors: CHADDOCK, D.; SPANSWICK, E.; GILLIES, R.; SKONE, S.

Presenter: RAVISHANKAR, Anitha (University of Calgary, Calgary, Canada)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 64

Type: **not specified**

Electrode effects in the Earth's atmosphere

Thursday 25 April 2024 09:00 (15 minutes)

Author: HOVORUKHA, Bohdan (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: KOZAK, L.; SOLOMAKHA, M.

Presenter: HOVORUKHA, Bohdan (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 65

Type: **not specified**

Influence of aerosols on the electrical characteristics of the atmosphere

Thursday 25 April 2024 09:15 (15 minutes)

Author: SOLOMAKHA, Mykhailo (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: HOVORUKHA, B.; KOZAK, L.

Presenter: SOLOMAKHA, Mykhailo (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 66

Type: **not specified**

Preliminary results of the solar radiation parameters study in midlatitude station in China

Thursday 25 April 2024 09:30 (15 minutes)

Presenter: SUN, Xiaopeng (Jilin University, Changchun, JiLin, China)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: 67

Type: **not specified**

Sudden stratospheric warming impact on the Antarctic stratospheric ozone variations

Thursday 25 April 2024 09:45 (15 minutes)

Author: YU, Ruixian (Jilin University, Changchun, JiLin, China)

Presenter: YU, Ruixian (Jilin University, Changchun, JiLin, China)

Session Classification: Atmospheric studies and space geophysics

Contribution ID: **68**

Type: **not specified**

Solar X-class Flares Characteristics in the Presence and Absence of CMEs

Thursday 25 April 2024 10:30 (15 minutes)

Author: HALEEM, Junaid (Chang'An University, Xi'an, Shaanxi, China)

Presenter: HALEEM, Junaid (Chang'An University, Xi'an, Shaanxi, China)

Session Classification: Solar physics and heliosphere

Contribution ID: 69

Type: **not specified**

An Analytical Modeling Approach to Understand the Thermodynamic Evolution of Coronal Mass Ejections

Thursday 25 April 2024 10:45 (15 minutes)

Author: KHUNTIA, Soumyaranjan (Indian Institute of Astrophysics, Bangalore, Karnataka, India)

Co-author: MISHRA, W.

Presenter: KHUNTIA, Soumyaranjan (Indian Institute of Astrophysics, Bangalore, Karnataka, India)

Session Classification: Solar physics and heliosphere

Contribution ID: 70

Type: **not specified**

Alfvén wave interaction with particles

Thursday 25 April 2024 11:00 (15 minutes)

Author: JATAV, Bheem Singh (Madhav University, Pindwara, Rajasthan, India)

Presenter: JATAV, Bheem Singh (Madhav University, Pindwara, Rajasthan, India)

Session Classification: Solar physics and heliosphere

Contribution ID: 71

Type: **not specified**

Global Coronal Magnetic field Estimation using Bayesian Inference

Thursday 25 April 2024 11:15 (15 minutes)

Author: BAWEJA, Upasna (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand, India)

Co-authors: ARREGUI, I.; JYOTIBA, M.; PANT, V.

Presenter: BAWEJA, Upasna (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand, India)

Session Classification: Solar physics and heliosphere

Contribution ID: 72

Type: **not specified**

Ca K Polar Network as a Proxy for Estimating Polar Magnetic Fields of the Sun

Thursday 25 April 2024 11:30 (15 minutes)

Author: MISHRA, Dibya Kirti (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand, India)

Co-authors: JHA, B. K.; BANERJEE, D.; ERMOLLI, I.; CHATZISTERGOS, T.

Presenter: MISHRA, Dibya Kirti (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand, India)

Session Classification: Solar physics and heliosphere

Contribution ID: 73

Type: **not specified**

Diagnostics of interplanetary electron beams produced in solar flares with X-ray and Radio data from Solar Orbiter

Thursday 25 April 2024 11:45 (15 minutes)

Author: PAIPA, David (Observatoire de Paris, Meudon, France)

Co-authors: REID, H.; MAKSIMOVIC, M.; VILMER, N.

Presenter: PAIPA, David (Observatoire de Paris, Meudon, France)

Session Classification: Solar physics and heliosphere

Contribution ID: 74

Type: **not specified**

Probing the Solar Corona with Pulsar Pulses: Calculating Electron Concentration Profile

Thursday 25 April 2024 12:00 (15 minutes)

Author: SKORYK, Anastasiis (Institute of Radio Astronomy NASU, Khariv, Ukraine)

Co-authors: SHEVTSOVA, A.; SKORYK, M.; ULYANOV, O.

Presenter: SKORYK, Anastasiis (Institute of Radio Astronomy NASU, Khariv, Ukraine)

Session Classification: Solar physics and heliosphere

Contribution ID: 75

Type: **not specified**

Double Periodic Variable V4142 Sgr: a key to approaching the stellar dynamo

Thursday 25 April 2024 12:15 (15 minutes)

Author: ROSALES G., Jaime A. (Universidad de Concepción, Concepción, Bío Bío, Chile)

Co-authors: SCHLEICHER, D. R. G.; DJURASEVIC, G.; PETROVIC, J.; LEIGH, N. W. C.; MEN-
NICKENT, R. E.

Presenter: ROSALES G., Jaime A. (Universidad de Concepción, Concepción, Bío Bío, Chile)

Session Classification: Solar physics and heliosphere

Contribution ID: 76

Type: **not specified**

Modified cosmology through Barrow entropy: A Thermodynamic Perspective Beyond Equilibrium

Author: KRISHNAN P, Nandhida (Cochin University of Science and Technology (CUSAT), Cochin, Kerala, India.)

Co-author: MATHEW, T.K.

Presenter: KRISHNAN P, Nandhida (Cochin University of Science and Technology (CUSAT), Cochin, Kerala, India.)

Session Classification: Cosmology

Contribution ID: 77

Type: **not specified**

Insights on Granda –Oliveros Holographic Dark Energy: Evidence of negative dark energy at $z \geq 2$

Friday 26 April 2024 09:00 (15 minutes)

Presenter: MANOHARAN, Manosh T. (Cochin University of Science and Technology (CUSAT), Cochin, Kerala, India.)

Session Classification: Cosmology

Contribution ID: 78

Type: **not specified**

Cosmological Mass Varying Neutrino Model

Friday 26 April 2024 09:15 (15 minutes)

Presenter: AVSAJANISHVILI, Olga (E.Kharadze Georgian National Astrophysical Observatory, Tbilisi, Georgia)

Session Classification: Cosmology

Contribution ID: 79

Type: **not specified**

Spectral energy distribution of radiation from star-like sources in the expanding Universe

Friday 26 April 2024 09:30 (15 minutes)

Author: YANG, Anguohao (Jilin University, Changchun, Jilin, China)

Presenter: YANG, Anguohao (Jilin University, Changchun, Jilin, China)

Session Classification: Cosmology

Contribution ID: **80**

Type: **not specified**

Non constancy of a_0 in MOND

Friday 26 April 2024 09:45 (15 minutes)

Presenter: DEL POPOLO, Antonino (Catania University, Catania, Italia)

Session Classification: Cosmology

Contribution ID: **81**

Type: **not specified**

Topological data analysis of large scale structure of the Universe

Friday 26 April 2024 10:00 (25 minutes)

Author: TSIZH, Maksym (University of Bologna , Bologna, Italy)

Co-authors: TYMCHYSHYN, V.; VAZZA, F.; BALDI, M.

Presenter: TSIZH, Maksym (University of Bologna , Bologna, Italy)

Session Classification: Cosmology

Contribution ID: **82**

Type: **not specified**

Dark matter subhalo properties in the cosmic web

Friday 26 April 2024 10:25 (15 minutes)

Author: HUNDE, Feven Markos (Center for Theoretical Physics, Polish Academy of Sciences, Warsaw, Poland))

Co-authors: HELLWING, W. A.; NEWTON, O.; BILICKI, M.; NAIDOO, K.

Presenter: HUNDE, Feven Markos (Center for Theoretical Physics, Polish Academy of Sciences, Warsaw, Poland))

Session Classification: Cosmology

Contribution ID: 83

Type: **not specified**

Measuring the dark matter halo mass distribution with weak lensing

Friday 26 April 2024 10:40 (15 minutes)

Author: AKHMETSHYN, Roman (McGill University, Montreal, Canada)

Co-authors: HUDSON, M.; ELVIN-POOLE, J.

Presenter: AKHMETSHYN, Roman (McGill University, Montreal, Canada)

Session Classification: Cosmology

Contribution ID: **84**

Type: **not specified**

X-ray Study of Segments of Cygnus loop

Friday 26 April 2024 11:30 (15 minutes)

Author: BEHERA, Rupesh (Indian Institute of Astrophysics, Bangalore, Karnataka, India)

Co-author: SUTARIA, F. K.

Presenter: BEHERA, Rupesh (Indian Institute of Astrophysics, Bangalore, Karnataka, India)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 85

Type: **not specified**

Gamma-ray emission from the outskirts of magnetar SGR 1900+14

Friday 26 April 2024 11:45 (15 minutes)

Author: NIKITCHENKO, Vladyslav (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: SOKAREVA, A.O.; VOITSEKHOVSKYI, V.V.

Presenter: NIKITCHENKO, Vladyslav (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 86

Type: **not specified**

Studies of variability mechanism in Blazars Jets using X-ray Data

Friday 26 April 2024 12:00 (15 minutes)

Author: WANI, Kiran (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand ,India)

Co-authors: GAUR, H.; PATIL, M. K.

Presenter: WANI, Kiran (Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Uttarakhand ,India)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 87

Type: **not specified**

Can FSRQ 3C 345 be a very high energy blazar candidate?

Friday 26 April 2024 12:15 (15 minutes)

Author: DAR, Athar Ahmad (University Of Kashmir, Srinagar, Jammu And Kashmir, India)

Co-authors: IQBAL, N.; SAHAYANATHAN, S.; SHAH, Z.

Presenter: DAR, Athar Ahmad (University Of Kashmir, Srinagar, Jammu And Kashmir, India)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 88

Type: **not specified**

Superluminal Motion and Jet Parameters in a Gamma-ray-emitting Narrow-line Seyfert 1 Galaxy

Friday 26 April 2024 12:30 (15 minutes)

Author: KOZÁK, Bettina (Eötvös Loránd University, Budapest, Hungary)

Co-authors: GABÁNYI, K. E.; FREY, S.

Presenter: KOZÁK, Bettina (Eötvös Loránd University, Budapest, Hungary)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 89

Type: **not specified**

Interpreting the hard X-ray emission from the large scale jet of AGN

Friday 26 April 2024 12:45 (15 minutes)

Author: ABDULRAHMAN, Amal (Farook College, Kozhikode, Kerala, India)

Co-author: SAHAYANATHAN, S.

Presenter: ABDULRAHMAN, Amal (Farook College, Kozhikode, Kerala, India)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: **90**

Type: **not specified**

GRBs localization with nano-satellites constellations

Friday 26 April 2024 13:00 (15 minutes)

Author: LEONE, Wladimiro (University of Trento, Trento, Italia)

Co-authors: BURDERI, L.; DI SALVO, T.; RIPA, J.; ANITRA, A.; IARIA, R.; BARRA, F.; RIGGIO, A.; SANNA, A.; CABRAS, C.; FIORE, F.

Presenter: LEONE, Wladimiro (University of Trento, Trento, Italia)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 91

Type: **not specified**

Tidal Disruption Events as the origin of UHECR

Friday 26 April 2024 13:15 (15 minutes)

Author: PLOTKO, Pavlo (DESY Zeuthen, Zeuthen, Germany)

Co-authors: LUNARDINI, C.; YUAN, C.; WINTER, W.

Presenter: PLOTKO, Pavlo (DESY Zeuthen, Zeuthen, Germany)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 92

Type: **not specified**

High energy astrophysical neutrinos from the central cluster of the Shapley supercluster

Friday 26 April 2024 14:00 (15 minutes)

Author: POLESHCHUK, Mykhailo (Bogolyubov Institute for Theoretical Physics of NASU, Kyiv, Ukraine)

Co-authors: BABUR, V.; ZADOROZHNA, L.

Presenter: POLESHCHUK, Mykhailo (Bogolyubov Institute for Theoretical Physics of NASU, Kyiv, Ukraine)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 93

Type: **not specified**

Gamma-ray emission of the central region of the Shapley Supercluster

Friday 26 April 2024 14:15 (15 minutes)

Author: BABUR, Valentyna (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: VOITSEKHOVSKYI, V.; HNATYK, B.

Presenter: BABUR, Valentyna (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 94

Type: **not specified**

Search for the sources of UHECRs: A Simulation-Based Study of CRs backpropagation near SGR 1900+14

Friday 26 April 2024 14:30 (15 minutes)

Author: VOITSEKHOVSKYI, Vadym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: GUGNIN, O.; HNATYK, B.

Presenter: VOITSEKHOVSKYI, Vadym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: 95

Type: **not specified**

Probing Dark Matter with Gamma-Ray Signals from the Shapley Supercluster

Friday 26 April 2024 14:45 (15 minutes)

Author: STEPANOV, Maksym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Co-authors: BABUR, V.; ZADOROZHNA, L.

Presenter: STEPANOV, Maksym (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Session Classification: High energy astrophysics and astroparticle physics

Contribution ID: **96**

Type: **not specified**

Official closure

Friday 26 April 2024 15:00 (30 minutes)