



International Astronomical Union
Union Astronomique Internationale

POST MEETING REPORT FORM

Deadline for Submission: within 1 month after the meeting

The chair of the SOC of any IAU scientific meeting is responsible for preparing the [Post Meeting Report](#) using the standard form available on-line **within 1 month after the Meeting**.
The proposal must include a written commitment to abide by this requirement.

- (i) Final scientific programme, list of invited review speakers and session chairs, to be published in the IAU website

Final scientific programme — see the attached file

Session Chairs — 2/9 (female/male)

Invited speakers — 3/14 (female/male)

Contributed talks — 24/68 (female/male)

Session Chairs

D. Bisikalo M

T. Hanawa M

C. Boily M

S. Mohamed F

G. Mellema M

E. Katsavounidis M

D. Ryu M

T. Hanawa M

S. Portegies Zwart M

D. Wiebe M

M. Fujii F

Invited speakers

R. Klessen M

T. Takiwaki M

M. Vogelsberger M

R. Weiss M

L. Kewley F

A. Brown M

N. Pogorelov M

A. Lecavelier des Etangs M

P. Hénnebelle M

V. Bromm M

A. Pillepich F

A. Inés Gómez de Castro F

F. Yuan M

M. Shibata M

A. Mezzacappa M
A. Kosovichev M
S. Rosswog M

(ii) Summary of the scientific highlights of the meeting (1 page, to be published on the IAU website)

The primary goal of the IAU Symposium 362 “Predictive Power of Computational Astrophysics as a Discovery Tool” was to summarize the current state of various computational techniques and their results in a wide range of astronomical topics. The broad subjects of the symposium have been stated as strong gravity, large-scale structure, galaxy formation and evolution, star formation and the interstellar medium, stellar evolution, Solar & exo-planet systems, and new computational tools and data mining, but there were many talks that went beyond this general structure. The symposium scientific program consisted of 17 invited talks, 95 contributed talks, and 23 poster presentations. We also had a session of poster introduction in which each presenter introduced their posters by two-minutes pre-recorded videos.

One of the invited talks was given by the Nobel Prize winner Reiner Weiss. It was devoted to gravitational wave astronomy, which is not only one of the most significant developments in modern astronomy, but also a major computational achievement. Gaia recent results were the subject of another invited talk, given by A. Brown. The talk explored the challenges that large data sets, like the Gaia archive, present to the computational astrophysics field, both from data mining/analysis and modelling point of view. In some invited talks various aspects of the interstellar medium (ISM) physics and star formation studies have been considered at various scales, from large-scale ISM modelling (L. Kewley), galaxy formation modelling (M. Vogelsberger) and initial mass function (P. Hennebelle) to small-scale phenomena and individual objects, like T Tauri stars (Gomez de Castro), the heliosphere and local interstellar medium (N. Pogorelov), or exocomets (A. Lecavelier des Etangs). Of special importance are issues related to coupling between theoretical predictions and observational results (R. Klessen). An invited talk by V. Bromm was devoted to the formation of first stars. A significant attention was paid to modelling of various extreme events, like neutron star mergers (M Shibata), supernova explosions (T. Takiwaki, A. Mezzacappa), outflows from accretion disks around black holes (F. Yuan), general aspects of relativistic fluid modelling (S. Rosswog). On the opposite side, global cosmological simulations were the subject of A. Pillepich invited talks. Finally, A. Kosovichev presented the current state of the Sun modelling, which has not just scientific, but also practical significance, given our reliance on electronic devices that sensitively depend on the solar activity.

The subject range of contributed talks was, of course, even wider. Participants presented new and upgraded computational tools, discussed new methods of data analysis related to machine learning. There were talks devoted to cosmology, stellar structures, magnetic fields, star formation at various scales and epochs, and even astrobiology. All the talks have been recorded and presented to the Symposium participants, who had missed them due to time zone differences or other reasons.

(v) An Executive Summary of the Meeting (1-2 pages) to be published on the IAU website.

Computational astrophysics rapidly becomes an indispensable tool for data-handling and making scientific discoveries in astronomy. A spectacular example is the precise calculation of gravitational wave forms coupled with sophisticated algorithms for signal analysis, together enabling a reliable gravitational wave detection. The main objective of this Symposium was to capitalize on these and other exciting advances. Our intention was to bring together both top scientists and students in a broad variety of research fields to summarize major achievements and outstanding challenges from theory and observations.

The initial plan was to hold a meeting in France, in June 2020. For obvious reasons we first had to postpone the Symposium until 2021, and then we decided to make it a fully online event in November 2021. Still, this has not prevented us from having a diverse and fruitful meeting. We have considered various options for organizing this event, including available commercial solutions, and finally decided that a professional Zoom account (kindly provided by the IAU) in combination with a dedicated Slack working space would fit all our needs. That proved to be a viable solution. We also offered a WonderMe space for private discussions.

The list of registered participants is just over 200 and consists of representatives from 35 countries, with two most significant delegations from the USA and Russia. While online meetings do have some disadvantages, the total participant number far exceeds the number of participants that had registered for the initial dates. Online format has allowed the Symposium to be attended by people from underrepresented countries, which would otherwise have not been able to participate.

The scientific program of the Symposium was quite extended with 17 invited talks, 95 contributed talks, and 23 posters, and consisted of whole-day sessions. As we had to take time zones into account, it was impossible to organize truly topical sessions, but we still succeeded in keeping some subject organization, while respecting speakers' comfort. Two technical support teams from Japan and Russia provided Zoom and Slack functioning, distribution of links, time keeping etc.

Overall, the symposium was very inspiring and, hopefully, useful. All the presented talks were quite informative. Of course, some of them raised lots of questions, but it is a normal situation in science, and it does not mean that they are not interesting. The symposium participants were of very different levels, from students to a Nobel prize winner. The range of topics was also very broad, therefore the SOC spent a lot of time trying to combine wideness and deepness. Finally, we managed to reach a good combination of reviews and contributed talks that gave us both an extensive introduction to main topics and the highest level of specific studies.

The IAU Commission B1 organizing committee was the main engine of the conference, and we hope that its old and new members will continue this hard job. The symposium is now over, but the work continues. The next step is to prepare and publish the Symposium proceedings.

IAU Symposium 362 Scientific Programme			
(I) = invited talk ; all times @ GMT+1h (Europe winter time)			
Day 1 (Monday 8 November)			
Time	Speaker id	Institute	Title
Session 1 (Chair : D. Bisikalo)			
08:45–09:00	Zoom starts		
09:00–09:15	Dmitry Bisikalo	Russian Aca. of Sci.	Opening remark / technical announcements
09:15—09:45	1_Ralf Klessen (I)	ITA, Heidelberg	Predicting diagnostic emission lines in star-forming regions -- Linking numerical modeling to multi-wavelength observations
09:45—10:00	2_Jeongbhin Seo	Pusan National University	A New Code for Relativistic Hydrodynamics and its Application to FR II Radio Jets
10:00-10:15	3_Alexander Wagner	University of Tsukuba	Probing jet-ISM interactions and the physics of AGN feedback in the radio galaxy IC 5063 with source-tailored hydrodynamic simulations
10.15–10.30	4_Keiya Hirashima	University of Tokyo	Predicting the expansion of supernova shell for high-resolution galaxy simulations using deep learning
10.30–10.45	5_Yu Qiu	Kavli Inst. for Astron. & Astroph., Peking	Dynamics and Morphology of Cold Gas in Fast, Radiatively Cooling Outflows: Constraining AGN Energetics with Horseshoes
10.45–11.00	6_Mahavir Sharma	Indian Institute of Technology, Bhilai	Nature of star formation in first galaxies
11.00–11.15	Break		
Session 2 (Chair : T. Hanawa)			
11.15–11.45	7_Tomoya Takiwaki (I)	NAO, Japan	Dynamics of rotating or magnetized core-collapse supernovae
11.45–12.00	8_Peter Berczik	Main Astron. Observatory, NAS of Ukraine	NGC6240: Triple supermassive black holes in simulation and observation. Kozai-Lidov Effect and the timescale of PN merging
12.00–12.15	9_Anastasiia Topchieva	INASAN	Search for Galaxy Cluster Candidates using a convolutional neural network based on the method of tracing the Sunyaev-Zeldovich effect
12.15–12.30	10_Daria Dobrycheva	Main Astron. Observatory, NAS of Ukraine	The CNN classification of galaxies by their image morphological peculiarities
12.30–12.45	11_Aurore Betranhandy	Stockholm University	The impact of axions in 2D CCSNe simulations while varying the coupling constant
12.45–13.00	12_Mariana Panayotova	Inst. of Astronomy, Bulgarian Acad. of Sci.	Favoured Inflationary Models by SFC Baryogenesis
13.00–13.15	13_Iurii Babyk	Main Astron. Observatory, NASU of Ukraine	Optical and X-ray observations of NGC3081
13.15–13.45	Open discussion		
Lunch break / evening break			
Session 3 (Chair : C. Boily)			
15.00–15.30	14_Mark Vogelsberger (I)	MIT	Simulating Galaxy Formation: high and low redshifts
15.30–15.45	15_Enrico Garaldi	Max-Planck-Institut fuer astrophysik	Towards a complete picture of early structure formation using the Thesan radiation-magneto-hydrodynamics cosmological simulations
15.45–16.00	16_Folkert Nobels	Leiden Observatory	Simulating the multiphase gas cycle in galaxy groups and clusters
16.00–16.15	17_Pierre Ocvirk	University of Strasbourg	Cosmic Dawn III: the latest and largest radiation-hydrodynamical simulation of the Epoch of Reionization
16.15–16.30	18_Sophie Koudmani	University of Cambridge	Black Hole Feedback in New Regimes: Modelling Dwarf Galaxies with Active Galactic Nuclei
16.30–16.45	19_Moritz Fischer	University of Hamburg	Simulations of dark matter with frequent self-interactions
16.45-17:00	20_Simon Selg	Hamburg Observatory, Universität Hamburg	Studying Magnetic Field Amplification in Simulations of Interacting Galaxies
17:00-17:15	Break		
17.15–17.45	21_Rainer Weiss (I)	MIT	The beginnings of gravitational wave astronomy: current state and future
17.45–18.00	22_Virginia d'Emilio	Cardiff University	Density estimation with Gaussian Processes for gravitational waves
18.00–18.15	23_Ashkbiz Danehkar	University of Michigan	Hydrodynamic Simulations and Time-dependent Photoionization Modeling of Starburst-driven Superwinds
18.15–18.30	24_Greco Peña	Universidad de Valparaíso	The effect of primordial tomographic non-Gaussianity on structure formation
18.30–18.45	25_Ileyk El Mellah	IPAG - CNRS	Hybrid magnetic structures around spinning black holes connected to a surrounding accretion disk
18.45–19.00	General discussion		
Open discussion on WonderMe, Slack ... / end of day 1			

IAU Symposium 362 Scientific Programme <i>(I) = invited talk ; all times @ GMT+1h (Europe winter time)</i> Day 2 (Tuesday 9 November)			
Time	Speaker	Institute	Title
Session 4 (Chair : S. Mohamed)			
08.45–09.00	Zoom starts		
09.00–09.30	27_Lisa Kewley (I)	ASTRO 3D Australian National University	Theoretical modelling of the interstellar medium
09.30–09.45	28_Shyam Menon	Australian National University	Modelling Radiation Hydrodynamics in the FLASH Adaptive-Mesh Refinement (AMR) code
09.45–10.00	29_Ayan Bhattacharjee	UNIST	Could There Be a Unified Spectral Model for Black Holes and Neutron Stars?
10.00–10.15	30_Alessandro Trani	The University of Tokyo	TSUNAMI: a fast and accurate regularized code for black hole and planetary dynamics
10.15–10.30	31_Antonios Katsianis	T.-D. Lee Institute, Shanghai	A critical view on the SFRs derived in observations and cosmological simulations. Problem(s) in Paradise and the Elephant(s) in the room
10.30–10.45	32_Tetsuro Asano	University of Tokyo	Velocity-space substructures and bar resonances in an N-body Milky Way
10.45–11.00	33_Bhusan Kayastha	NAO, Chinese Academy of Sciences	Realistic Models of Globular Clusters using N-Body Simulations
11:00-11:15	Break		
Session 5 (Chair : G. Mellema)			
11.15–11.45	34_Anthony Brown (I)	Leiden Observatory	Gaia data as a playground for computational astrophysics
11.45–12.00	35_Radhika Achikanath Chirakkara	Australian National University	Efficient highly-subsonic turbulent dynamo and growth of primordial magnetic fields
12.00–12.15	36_Debasish Mondal	University of Calcutta, India	Role of galactic bars in the formation of spiral arms: a study through orbital and escape dynamics-I
12.15–12.30	37_Gourab Giri	Indian Inst. of Techno., Indore	Numerical modelling of peculiar winged sources having X- and S-shaped morphology
12.30–12.45	38_Michela Mapelli	University of Padova	A new computational approach to binary black hole formation
12.45–13.00	39_Massimo Gaspari	INAF-OAS, Bologna	Chaotic Cold Accretion onto Black Holes
13.00–13.15	40_Marco Dall'Amico	University of Padova	GW190521: second generation binary or exchanged system?
13.15–13.45	General discussion		
Lunch break / evening break			
Session 6 (Chairs : E. Katsavounidis / C. Boily *tbc)			
15.00–15.30	41_Nikolai Pogorelov (I)	University of Alabama in Huntsville	The Heliosphere in the Local Interstellar Medium
15.30–15.45	42_Bart Ripperda	Princeton Uni. & Flatiron Inst.	Black hole flares: ejection of accreted magnetic flux through 3D plasmoid-mediated reconnection
15.45–16.00	43_Raoul Canameras	MPA Garching	Identifying strong gravitational lenses in current and future large-scale imaging surveys
16.00–16.15	44_Margarita Sobolenko	Main Astron. Observatory NAS, Ukraine	Merging of spinning binary black holes in globular clusters
16.15–16.30	45_Peter Johansson	University of Helsinki	Resolving the complex dynamical evolution of supermassive black holes in cosmological simulations
16.30–16.45	46_Simon Portegies Zwart	Leiden Observatory	Lyapunov time dependence of N and the influence of general relativity
16.45–17.00	47_Steven Rieder	Université de Genève	Simulating star cluster formation in galaxies
17:00-17:15	Break		
17.15–17.45	48_Alain Lecavelier des Etangs (I)	IAP, Paris	Transit light curves of exocomets
17.45–18.00	49_Hui Li	Columbia University	Enhancing the formation of massive star clusters in galaxy mergers
18.00–18.15	50_Jessica Birky	University of Washington	Active Learning for Accelerated Bayesian Inference (ALABI)
18.15–18.30	51_Tsang Keung Chan	Durham University	Simulating the clumpy intergalactic medium during reionization with a novel particle-based two moment radiation hydrodynamics
18.30–18.45	52_Dongwook Lee	UC Santa Cruz	GP-MOOD: A positive-preserving high-order finite volume method for hyperbolic conservation laws
18.45–19.00	53_Ali Taani	Al Balqa Applied University	Accretion induced collapse of white dwarfs as an alternative symbiotic channel to millisecond pulsars
Open discussion on WonderMe, Slack / end of day 2			

IAU Symposium 362 Scientific Programme			
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Day 3 (Wednesday 10 November)			
Time	Speaker	Institute	Title
Session 7 (Chair : D. Ryu)			
08.45–09.00	Zoom session starts		
09.00–09.30	54_Patrick Hennebelle (I)	CEA	What sets the typical mass of stars?
09.30–09.45	55_Kazutaka Kimura	Kyoto University, Yukawa Institute	Feedback from the Vicinity of Massive Protostars in the First Star Formation
09.45–10.00	56_Yuya Sakurai	Kavli IPMU	Evolution of rapidly accreting protostars and the formation of supermassive stars with various metallicities
10.00–10.15	57_Tomoyuki Hanawa	Chiba University	Episodic accretion onto a young protostar
10.15–10.30	58_Ayano Komaki	The University of Tokyo	Radiation Hydrodynamics Simulations of Protoplanetary Disks
10.30–10.45	59_Miikka Väisälä	Academia Sinica Inst. of Astron. & Astroph.	Exploring magnetic spirals with radiative transfer tool Perspective
10.45–11.00	60_Wang Huijuan	NAO, Chinese Academy of Sciences	High resolution spectroscopic research of young solar-type stars
11:00-11:15	Break		
11.15–13.15	Poster session		21 posters 2 min each + poster discussion; see a list of posters here .
Lunch break / evening break			
Session 8 (Chairs : C. Boily / E. Audit)			
14.55–15.00	Conference picture		
15.00–15.30	61_Volker Bromm (I)	University of Texas at Austin	The First Stars: Ab-initio Structure Formation from Cosmological Initial Conditions
15.30–15.45	62_Stefano Torniamenti	University of Padova	A novel generative method for star clusters from hydro-dynamical simulations
15.45–16.00	63_Benedetta Casavecchia	Alma Mater Studiorum, University of Bologna	Absorption spectra from galactic wind models: a framework to link PLUTO simulations to TRIDENT
16.00–16.15	64_Anne Hutter	Kapteyn Astronomical Inst., Groningen	Astraeus: a framework to simulate early galaxies and reionization
16.15–16.30	65_Manos Zapartas	University of Geneva	Binary population synthesis with POSYDON: a next-generation code that employs detailed stellar structure and binary evolution calculation
16.30–16.45	66_Thavisha Dharmawardena	Max Planck Insitute for Astronomy	Deriving the 3D structure of the Milky Way: A fast and scalable Gaussian Process applied to nearby star-formation regions
16.45–17.00	67_Mayeul Arminjon	Grenoble-Alpes University, INP, CNRS	Spectral energy density in a galaxy: predictions of a model of the interstellar radiation field as an exact Maxwell field
17:00-17:15	Break		
17.15–17.45	68_Annalisa Pillepich (I)	MPIA Heidelberg	Universe(s) in a box: insights from galaxy formation simulations like IllustrisTNG and steps forward
17.45–18.00	69_Mike Grudic	Carnegie Observatory	The dynamics of star formation in GMCs: a view from STARFORGE
18.00–18.15	70_Joss Bland-Hawthorn	University of Sydney	Galactic seismology: the power of predictive Galactic dynamical models
18.15–18.30	71-Taichi Igarashi	Chiba University	Radiation Magnetohydrodynamic Simulations of Soft X-ray Emitting Regions in Active Galactic Nuclei
18.30–18.45	72_David Guszejnov	University of Texas at Austin	Effects of the environment and feedback physics on the initial mass function of stars
18.45–19.00	73_Henry Lane	Northwestern Uni. & Pennsbury High Sch.	Less wrong: a more realistic initial condition for simulations of turbulent molecular clouds
19.00–19.30			
Open discussion on WonderMe, slack / end of day 3			

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Day 4 (Thursday 11 November)			
Time	Speaker	Institute	Title
Session 9 (Chair : T. Hanawa / S. Portegies Zwart)			
08.45–09.00	Zoom session starts		
09.00–09.30	74_Ana Ines Gomez de Castro (I)	Uni. Complutense de Madrid	T Tauri stars: the physics of accretion engines — simulations versus observations
09.30–09.45	75_Yurina Nakazato	The University of Tokyo	The formation of Supersonically Induced Gas Objects (SIGOs) with H2 cooling
09.45–10.00	76_Michiko Fujii	The University of Tokyo	The formation of the Orion Nebula Cluster
10.00–10.15	77_Sayan Kundu	Indian Institute of Technology, Indore	Numerical modeling and physical interplay of stochastic turbulent acceleration
10.15–10.30	78_Thomas Rometsch	University of Tübingen	Detecting Vortices in Hydro-Simulation data using Computer Vision
10.30–10.45	79_Maryna Ishchenko	Main astron. Observatory, NAS of Ukraine	Dynamical evolution modelling of the Collinder 135 & UBC 7 binary star cluster
10.45–11.00	80_Khyati Malhan	MPIA, Heidelberg	The Global Dynamical Atlas of Milky Way mergers: Processing ESA/Gaia data with state-of-the-art software
11:00-11:15	Break		
11.15–11.45	81_Feng Yuan (I)	Shanghai Astronomical Observatory	Outflows from black hole hot accretion flows
11.45–12.00	82_Arghyadeep Paul	Indian Institute of Technology Indore	Explosive Magnetic reconnection and Particle Acceleration in High Lundquist Number Systems
12.00–12.15	83_Maria S. Kirsanova	Inst. of Astronomy, Russian Acad. of Sci.	Infrared appearance of wind-blown bubbles around young massive stars
12.15–12.30	84_Jonathan Mackey	Dublin Institute for Advanced Studies	PION: simulations of wind-blown nebulae
12.30–12.45	85_Gwenael Van Looveren	University of Vienna	PRESTALINE: a package for analysis and simulation of star forming regions
12.45–13.00	86_Andri Prozesky	University of South Africa	Theoretical model predictions as diagnostic tool for atomic hydrogen recombination maser sites
13.00–13.15	87_Wladimir Banda-Barragan	Hamburg University	A cloud-cloud collision in Sgr B2? 3D simulations meet SiO observations
13:15-13:45			
Open discussion			
Lunch break / evening break			
Session 10 (Chairs : D. Wiebe / S. Portegies Zwart *tbc)			
15.00–15.30	88_Masaru Shibata (I)	Max Planck Inst. for Gravitational Physics	Self-consistent picture of neutron-star mergers based on longterm numerical simulation
15.30–15.45	89_Pavel Kaygorodov	Institute of Astronomy, Russian Acad. of Sci.	Numerical modeling of a hot Jupiter with elliptical orbit
15.45–16.00	90_Valery Shematovich	Institute of Astronomy, RAS	Kinetic modeling of auroral events at solar and extrasolar planets
16.00–16.15	91_Martijn Wilhelm	Leiden Observatory	Modeling protoplanetary disk evolution in young star forming regions
16.15–16.30	92_Maksym Vasylenko	Main Astron. Observatory, NAS of Ukraine	Applying the machine learning procedures for exocomet hunting in the TESS database
16.30–16.45	93_Andrey Sobolev	Inst. of astronomy, Russian Acad. of Sci.	Drift of hot spots in the synchronous polar V808 Aur
16.45–17.00	94_Philipp Grete	University of Hamburg	Performance Portable Astrophysical Simulations: Challenges and Successes with K-Athena (MHD) and AthenaPK/ Parthenon (AMR)
17:00-17:15	Break		
17.15–17.45	95_Anthony Mezzacappa (I)	University of Tennessee	Computational Necessity and Discovery in Core Collapse Supernovae
17.45–18.00	96_Pierfrancesco Di Cintio	Enrico Fermi Research Center & INFN	Introducing MPCDSS: a new tool for the simulation of dense stellar systems
18.00–18.15	97_Zoltan Dencs	Konkoly Astronomical Institute, CSFK	Moon formation in the circumplanetary habitable zone
18.15–18.30	98_Rory Barnes	Western Sydney University	Computational Habitability
18.30–18.45	99_Irina Kitiashvili	NASA Ames Research Center	Effects of Rotation on Subsurface Structure and Dynamics of Main-Sequence Stars with Shallow Convection Zones
18.45–19.00	100_Irina Kitiashvili	NASA Ames Research Center	3D Realistic Modeling of Solar-Type Stars to Characterize the Stellar Jitter
19.00–19.30			
Open discussion on WonderMe, Slack / end of day 4			

IAU Symposium 362 Scientific Programme

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Day 5 (Friday 12 November)

Time	Speaker	Institute	Title
Session 11 (Chairs : M. Fujii / D. Bisikalo)			
08.45–09.00	Zoom session starts		
09.00–09.30	101_Alexander Kosovichev (I)	New Jersey Institute of Technology	Advances and Challenges in Global-Sun Modeling
09.30–09.45	102_Hiroto Mitani	University of Tokyo	Stellar wind effects on the atmospheric escape and transit signals of hot Jupiters
09.45–10.00	103_Hsien Shang	ASIAA	Visualizing formation of molecular outflows
10.00–10.15	104_Shanwlee Sow Mondal	Physical Research Lab., Ahmedabad	Particle acceleration and its consequences in ICME shocks
10.15–10.30	105_Prateek Mayank	Indian Institute of Technology, Indore	Physics-based Algorithm for Solar Wind using Adaptive Numerical Framework
10.30–10.45	106_Egor Illarionov	Moscow State University	Parametrization of sunspot groups using machine-learning approach
10.45–11.00	107_Rony Keppens	CmPA, KU Leuven	Magnetohydrodynamic spectroscopy of the solar atmosphere: is thermal instability unavoidable?
11:00-11:15	Break		
11.15–11.45	108_Stephan Rosswog (I)	Stockholm University	Modelling relativistic fluids with particles
11.45–12.00	109_Suzan Dogan	University of Ege, Izmir	Hydrodynamical Simulations of Misaligned Accretion Discs in Binary Systems: Companions tear discs
12.00–12.15	110-Sergey Khaibrakhmanov	Ural Federal & Chelyabinsk State Uni.	Numerical 2D MHD simulations of the collapse of magnetic rotating protostellar clouds with the Enlil code
12.15–12.30	111_Eduard Vorobyov	Vienna & Southern Federal University	FEOSAD - modeling the formation and long-term evolution of protoplanetary disks
12.30–12.45	112_Chia-Yu Hu	Max Planck Inst. for Extraterrestrial Physics	Metallicity dependence of the XCO factor in a multiphase interstellar medium
12.45–13.00	113_Diego Calderón	Charles University, Prague	Moving-mesh radiation-hydrodynamic simulations of wind-reprocessed transients
13.00–13.15	114_Iryna Vavilova	Main Astron. Observatory, NAS of Ukraine	Zone of Avoidance: Restoring with GAN technique
13.15–13.30			
Open discussion / Closing remarks / end of day 5			