



JOINT CONFERENCE OF THE SUB-REGIONAL EUROPEAN ASTRONOMICAL COMMITTEE (SREAC) AND THE BULGARIAN ASTRONOMICAL SOCIETY (BgAS)



<http://www.astro.bas.bg/BAM2019/index.php>



4 – 8 June 2019, Sofia, Bulgaria

Dedicated to the 100 anniversary of the International Astronomical Union and the 150 anniversary of the Bulgarian Academy of Sciences

SECOND ANNOUNCEMENT

The conference will take place at the Headquarters of the Bulgarian Academy of Sciences, large hall "Marin Drinov". The address is: ul. "15 noemvri" 1, 1000 Sofia Center, Sofia,

The Welcome party will take place on June 4 from 19:30 at the restaurant of the Hotel of the Bulgarian Academy of Sciences. The address is: Boulevard "Shipchenski Prohod" 52, 1111 Geo Milev, Sofia. (<https://www.google.com/maps/place/Hotel+of+Bulgarian+Academy+of+Sciences/@42.6768523,23.3648988,18z/data=!4m5!3m4!1s0x40aa85c4a91aca5b:0x1f269482f564c7a3!8m2!3d42.6770335!4d23.3661832>).

The venue for the Conference dinner and details about the activities on Saturday, 8 June will be given at a later date. They will be posted, together with other useful information, on the webpage of the conference: <http://www.astro.bas.bg/BAM2019/index.php>

The programme for the conference is given below. Please keep in mind that:

Invited talks should be of duration of no more than 25 min plus 5 min for questions.

Contributed talks should be of duration of no more than 15 min plus 5 min for questions.

We would kindly ask you to make your **posters** NO larger than A1 in size. They can also be presented at the end of each session for no more than 3 min plus 2min for questions per poster.

The contributions to the conference (talks and posters) will be published in the Bulgarian Astronomical Journal, <http://www.astro.bas.bg/AIJ/> after successfully passing a review process. The journal is indexed/abstracted by ADS, SCOPUS, Elsevier, Clarivate Analytics, Emerging Source Citation Index (ESCI) and other databases.

We are looking forward to seeing you in Sofia!

PRELIMINARY PROGRAMME:

June 4, Tuesday

Arrival of the participants

19:30 – Welcome party

June 5, Wednesday

8:00 – 10:00 – Registration and coffee

10:00 – 10:20 – Official opening

Session 1: Observatories, Instruments and Cooperation

10:20 – 10:50 - E. Semkov - The National Astronomical Observatory Rozhen - current status and plans for upgrade - Invited talk

10:50 – 11:20 - A. Mickaelian - Byurakan Astrophysical Observatory: present and future activities - Invited talk

11:20 – 11:50 - G. Damljanovic et al - Gaia DR2 and Serbian-Bulgarian investigations - Invited talk

11:50 – 12:10 Poster presentations (5 minutes each):

1. G. Damljanovic - Comparison of photometric results between the Serbian and Bulgarian telescopes and activities in line with Gaia Alerts (Gaia-FUN-TO)
2. Z. Cvetković - Measurement comparison between CCD frames obtained at NAOR and ASV
3. G. Latev - Bulgarian - Serbian collaboration: Advantages of the simultaneous observations
4. G. Latev - CCD parameters evaluation using photon transfer analysis technique

12:00 – 14:00 – Lunch

Session 2: Stars 1

14:00 – 14:20 - I. Stateva - The puzzling Algol-type star with oscillating component GSC 3889-0202

14:20 – 14:40 - G. Đurašević - UU Cas - massive close binary with accretion disk

14:40 – 15:00 - K. Stoyanov - Spectral observations of High-mass X-ray binaries

15:00 – 15:20 - Y. Nikolov - Spectropolarimetric observation of Be/X-ray binaries X Per and MWC656

15:20 – 15:40 - N. Tomov – Hot wind in the symbiotic binary AG Peg during its 2015 outburst

15:40 – 16:00 - Poster presentations (5 minutes each):

1. R. Pavlović - What extent are double stars really binaries to?
2. Ts. Georgiev - Intra-night flickering of RS Ophiuchi: III. Confirmation of the predicted 8.0, 5.3 and 3.5 min flickering modes

3. Ts. Georgiev -Intra-night flickering of RS Ophiuchi: IV. Shapes of the repeating structures and their evolution

4. D.Boneva - Disc's parameters and the accretion efficiency of two interacting binary stars

16:00 – 16:30 – Coffee break

Session 3: Stars 2

16:30 – 16:50 - I. Bulut - A photometric study of the W UMa–type eclipsing binary system CN And

16:50 – 17:10 - A. Bulut - Orbital period changes in the contact binary V401 Cyg

17:10 – 17:30 - T. Mitnyan - Correlations between chromospheric activity and physical parameters of contact binary stars

June 6, Thursday

Session 4: Solar system and the Sun

9:00 – 9:30 - G. Borisov - The diversity of the chemical composition of the Martian Trojan asteroids – Invited talk

9:30 – 9:50 - V. Celebonovic - Impact craters formation: some ideas

9:50 – 10:20 - B. Komitov – The solar cycles influence traces in Pinopsida-trees annual rings time series

10:20 – 10:35 - Poster presentations (5 minutes each):

1. T. Bonev - Dust released by artificial cosmic impacts: observational and theoretical challenges

2. Sv. Boeva - Light curve of 15691 Maslov asteroid

3. N. Petrov - Research on the white-light solar corona and active solar processes during total solar eclipses

10:35 – 11:00 – Coffee break

Session 5: Interstellar medium and Starforming regions

11:00 – 11:20 - O. Stanchev - Comparative analysis of clump populations in Rosette MC extracted by the methods GAUSSCLUMPS and DENDROGRAMS

11:20 – 11:40 - M. Bogdanova - A study of the hierarchical structure of MC Rosette based on observational and numerical data.

11:40 – 12:00 - L. Marinkova - On the extraction of power-law tails of the probability density functions in star-forming clouds

12:00 – 12:05 - Poster presentations (5 minutes each):

1. L. Slavcheva-Mihova - Star Formation in Mrk 477

12:05 – 14:00 – Lunch

Session 6: Quasistellar Objects & Active Galactic Nuclei

14:00 – 14:20 - V. Bozhilov - Photopolarimetric Study of Blazar-type AGN OJ287 with the 2m RCC Telescope at NAO Rozhen

14:20 – 14:40 - M. Minev - Optical counterpart of gamma-ray observations of AGNs

14:40 – 15:00 - M. Jovanović - Quasiperiodicity of some of the quasars important to ICRF-Gaia CRF link

15:00 – 15:20 - P. Sándor - Lyman limit systems between $z=1$ and $z=2$

15:20 – 15:35 - Poster presentations (5 minutes each):

1. B. Mihov - The light curve analysis of the blazar 3C 454.3
2. G. Marković - Morphology of some quasars suitable for the link between ICRF and future Gaia CRF
3. K. Yankova – Advection– fundamental mechanism

15:35 – 16:00 – Coffee break

Session 7: Cosmology & Galaxies

16:00 – 16:20 - B. Nedelchev - Using The Properties of Kinematically Distinct Components as Fossil Records for Galaxy Formation and Evolution

16:20 – 16:40 - M. Krizek - Why is the proclaimed amount of dark matter overestimated?

16:40 – 17:00 - D. Kirilova - Big Cosmological Influence of Tiny Lepton Asymmetry During BBN

17:00 – 17:20 - U. Sureshkumar - Environmental dependence of properties of galaxies in Galaxy and Mass Assembly (GAMA) survey and its evolution using Marked statistics

19:30 – Conference dinner

June 7, Friday

Session 8: STARS 3

9:00 – 9:20 - A. Valcheva - Variables in the field of M31 stellar complex OB81

9:20 – 9:50 - N. Markova - Low luminosity late O stars in the VFTS. Classification and main physical properties – Invited talk

9:50 – 10:10 - Z. Jäger - Supernova analysis with MCMC method.

10:10 – 10:30 - Poster presentations (5 minutes each):

1. L. Iliev - Evidences for spectral variability of the stable shell star HD 192954

2. G. Latev - Black body temperature vs. color indices: A grid constructed by data from Filter Profile Service at Spanish Virtual Observatory (SVO)
3. L. Dankova - Stellar maps of the Northern Sky
4. N. Taneva - The variable H42 in the M31 stellar complex OB81

10:30 – 11:00 – Coffee break

Session 9: STARS 4

11:00 – 11:20 - A. Bókon - A stochastic sampling method for the analysis of eclipsed pulsations

11:20 – 11:40 - S. Georgiev - Magnetism in Cool Evolved Stars: the Single M-Giants EK Bootis and β Pegasi

11:40 – 12:00 - A. Antonova - Spectral classification of ultracool dwarf candidates with OSIRIS/GTC. First detection of Balmer line emission from the dwarf carbon star LSR J2105+2514.

12:00 – 14:00 – Lunch

Session 10: Education and Outreach

14:00 – 14:20 - O. Kuzmanovska - Astronomical alignments and calendars of the peak sanctuary Kokino

14:20 – 14:40 - E. Bozhurova - Astronomical problems for school olympiads based of moments of astronomy history

14:40 – 14:50 - Poster presentations (5 minutes each):

1. I. Jokin - Non-formal education in astronomy
2. L. Slavcheva-Mihova - IAU 100 Year Celebration in Bulgaria

15:00 – 15:15 - Closing

15:15 – 15:30 - Coffee break

15:30 - 17:00 – BgAS Annual Meeting

17:00 – SREAC Board Meeting

June 8, Saturday

13:00 – 17:00 – Astronomy for the public

Excursion to Vitosha mountain/Sofia sightseeing.