PROGRAMME

June 4, Tuesday
Arrival of the participants
19:30 – Welcome party

June 5, Wednesday
8:00 – 10:00 – Registration and coffee

Session 1: Stars 1 (Chair: E. Semkov)

10:00 – 10:20 - G. Đurašević - UU Cas-massive Close binary with accretion disk

10:20 – 10:40 - I. Stateva - The puzzling Algol-type star with oscillating component GSC 3889-0202

10:40 – 11:00 - K. Stoyanov - Spectral observations of High-mass X-ray binaries

11:00 – 11:20 - Y. Nikolov - Spectropolarimetric observation of Be/X-ray binaries X Per and MWC656

11:20 – 11:40 - N. Tomov – Hot wind in the symbiotic binary AG Peg during its 2015 outburst

11:40 – 12:00 - Poster presentations (5 minute 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

12:00 – 14:00 – Lunch
Official opening

Session 2: Observatories, Instruments and Cooperation (Chair: R. Konstantinova-Antova)

14:30 – 15:00 - E. Semkov - The National Astronomical Observatory Rozhen - current status and plans for upgrade - Invited talk

15:00 – 15:30 - G. Damljanovic et al - Gaia DR2 and Serbian-Bulgarian investigations - Invited talk

15:30 – 15:50 Poster presentations (5 minute 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

15:50 – 16:20 – Coffee break

Session 3: Stars 2 (Chair: A. Antonova)

16:20 – 16:40 - A. Bókon - A stochastic sampling method for the analysis of eclipsed pulsations

16:40 – 17:00 - T. Mitnyan - Correlations between chromospheric activity and physical parameters of contact binary stars

17:00 – 17:20 - M. Krizek - Why is the proclaimed amount of dark matter overestimated?

June 6, Thursday

Session 4: Solar system and the Sun (Chair: G. Đurašević)

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

10:10 – 10:25 - Poster presentations (5 minute 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

10:25 – 11:00 – Coffee break
Session 5: Interstellar medium and Starforming regions (Chair: N. Markova)

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 minute each):
   1. L. Slavcheva-Mihova - Star Formation in Mrk 477

12:05 – 14:00 – Lunch

Session 6: Quasistellar Objects & Active Galatic Nuclei (Chair: T. Bonev)

14:00 – 14:20 - V. Bozhilov - Photopolarimetical 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 minute 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 (Chair: I. Stateva)

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 - D. Kirilova - Big Cosmological Influence of Tiny Lepton Asymmetry During BBN

19:30 – Conference dinner
June 7, Friday

Session 8: STARS 3 (Chair: I. Iliev)

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


10:30 – 11:00 – Coffee break

Session 9: STARS 4 (Chair: O. Kuzmanovska)

11:00 – 11:20 - 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.

11:20 – 11:40 - Poster presentations (5 minute 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

Session 10: Education and Outreach (Chair: K. Stoyanov)

11:40 – 12:00 - O. Kuzmanovska - Astronomical alignments and calendars of the peak sanctuary Kokino

12:00 – 12:20 - E. Bozhurova - Astronomical problems for school olympiads based of moments of astronomy history

12:20 – 12:30 - Poster presentations (5 minute each):
   1. I. Jokin - Non-formal education in astronomy
   2. L. Slavcheva-Mihova - IAU 100 Year Celebration in Bulgaria

12:30 – 12:45 - Closing

12:45 – 14:30 – Lunch

14:30 – 15:30 – SREAC Board Meeting

15:30 – BgAS Annual Meeting
June 8, Saturday
14:00 – 17:00 – Astronomy for the public

Excursion to Vitosha mountain/Sofia sightseeing