



APRIM 2014

12th Asia-Pacific Regional IAU Meeting
August 18-22, 2014 / DCC, Daejeon, Korea

S3 : Stars, Exoplanets and Stellar Systems

Session: [B2A-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 19, 2014 (Tuesday)

Time: 11:00~12:25

Room: Room C (Room 104)

Chair: Irina Voloshina (Sternberg Astronomical Institute)

[B2A-3-1]

11:00~11:20

[Invited] Magnetic CV as a Bright Representative of Close Binaries

Shengbang Qian (Chinese Academy of Sciences, China), Liying Zhu, Liang Liu, and Wenping Liao

[B2A-3-2]

11:20~11:40

[Invited] Accretion Processes in Cataclysmic Variables with Magnetic Field

D. V. Bisikalo (Institute of Astronomy RAS, Russia)

[B2A-3-3]

11:40~11:55

Period Variations of Superhumps in SU UMa Stars

Akira Imada (National Astronomical Observatory of Japan, Japan) and Taichi Kato

[B2A-3-4]

11:55~12:10

Dynamical Effects From Mass Transfer in Non-Magnetic CVs

Michele M. Montgomery (UCF Physics, USA)

[B2A-3-5]

12:10~12:25

BVR photometric Analysis of Intermediate Polar MU Cam

Jiwon Park (Chungbuk National University, Korea), Joh-na Yoon, Yonggi Kim, and Ivan L. Andronov



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Session: [B2B-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 19, 2014 (Tuesday)

Time: 14:00~15:30

Room: Room C (Room 104)

Chair: Shengbang Qian (Yunnan Observatories)

[B2B-3-1]

14:00~14:20

[Invited] Recurrent Novae in the Multi-Wavelength Observations Era

G. C. Anupama (Indian Institute of Astrophysics, India)

[B2B-3-2]

14:20~14:35

Study of Superhumps in Recently Discovered SU UMa Dwarf Novae

Irina Voloshina (Sternberg Astronomical Institute, Russia) and Vladimir Metlov

[B2B-3-3]

14:35~14:50

Investigation of Galactic Classical and Recurrent Novae with Ground-based Observations and the Solar Mass Imager (SMEI)

Farung Surina (Chiangrai Rajabhat University, Thailand), Michael F. Bode, Matthew J. Darnley, and Rebekah Hounsell

[B2B-3-4]

14:50~15:05

Expansion Velocity and Spectroscopic Classification of Nova Delphini 2013

Rhisa Azaliah (Institut Teknologi Bandung, Indonesia), Hakim Luthfi Malasan, Gabriela Kezia Haans, and Saeful Akhyar

Poster Session

15:05~15:30

Chairs: Irina Voloshina (Sternberg Astronomical Institute)

Shengbang Qian (Yunnan Observatories)



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Session: [B2C-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 19, 2014 (Tuesday)

Time: 16:00~17:25

Room: Room C (Room 104)

Chair: G. C. Anupama (Indian Institute of Astrophysics)

[B2C-3-1]

16:00~16:20

[Invited] The Dust Production by Evolved Stars in the Magellanic Clouds

F. Kemper (Academia Sinica Institute of Astronomy and Astrophysics, Taiwan)

[B2C-3-2]

16:20~16:40

[Invited] Observational Studies of Evolved Stars Using the KVN

Se-Hyung Cho (Korea Astronomy and Space Science Institute, Korea) and KVN Evolved Star Sub-Working Group Members

[B2C-3-3]

16:40~16:55

Japanese VLBI Network Mapping of SiO $v=2$ and $v=3$ $J=1-0$ Masers around Evolved Stars

M. Oyadomari (Kagoshima University, Japan) and H. Imai

[B2C-3-4]

16:55~17:10

Period Variation of EROS Eclipsing Binary Systems in the Large Magellanic Cloud

Pakakew Rittipruk (Sejong University, Korea), Young-Woon Kang, and Kyeongsoo Hong

[B2C-3-5]

17:10~17:25

Kinematical Properties of Planetary Nebulae with WR-type Nuclei

A. Danehkar (Macquarie University, Australia), W. Steffen, and Q. A. Parker



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Session: [B3A-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 20, 2014 (Wednesday)

Time: 11:00~12:30

Room: Room C (Room 104)

Chair: Se-Hyung Cho (Korea Astronomy and Space Science Institute)

[B3A-3-1]

11:00~11:15

Fast Rotating Brown Dwarf Magnetospheres and Their Planetary Analogues

Wing-Huen Ip (National Central University, Taiwan)

[B3A-3-2]

11:15~11:30

Mid-Infrared Period-Metallicity-Luminosity Relations and Kinematics of RR Lyrae Variables

A. K. Dambis (Sternberg Astronomical Institute, Russia), L. N. Berdnikov, A. Y. Kniazev, V. V. Kravtsov, A. S. Rastorguev, R. Sefako, O. V. Vozyakova, and M. V. Zabolotskikh

[B3A-3-3]

11:30~11:45

V5584 Sgr: A Moderately Fast Nova of Fe II Class with CO Bands in Emission

Ashish Raj (Korea Astronomy and Space Science Institute, Korea), N. M. Ashok, D. P. K. Banerjee, and Sang Chul Kim

[B3A-3-4]

11:45~12:00

Existence of Non-planar Triangular Equilibrium Points in Elliptic Restricted Three-Body Problem under the Effects of Radiation and Oblateness

Budi Dermawan (Bandung Institute of Technology, Indonesia), I. N. Huda, R. W. Wibowo, T. Hidayat, J. A. Utama, D. Mandey, and I. Tampubolon

[B3A-3-5]

12:00~12:15

Hidden Secrets in Stellar Loci: Metallicity Dependences, Intrinsic Widths and Binaries

Haibo Yuan (Peking University, China), Xiaowei Liu, Maosheng Xiang, Yang Huang, and Bingqiu Chen

[B3A-3-6]

12:15~12:30

Search for Stellar Substructures of Four Metal-Poor Globular Clusters in the Galactic Bulge Region

Sang-Hyun Chun (Yonsei University, Korea), Minhee Kang, DooSeok Jung, and Young-Jong Sohn



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Session: [B4A-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 21, 2014 (Thursday)

Time: 11:00~12:30

Room: Room C (Room 104)

Chair: Daniel Bayliss (Australian National University)

[B4A-3-1]

11:00~11:20

[Invited] High Time Resolution Astrophysics: New Results from the Thai 2.4m Telescope with ULTRASPEC

Puji Irawati (National Astronomical Research Institute of Thailand, Thailand), Andrea Richichi, Vik Dhillon, Thomas R. Marsh, Agnieszka Slowikowska, and Boonrucksar Soonthornthum

[B4A-3-2]

11:20~11:35

Searching for and Characterization of Galactic Open Clusters

Wen-Ping Chen (National Central University, Taiwan) and Chien-Cheng Lin

[B4A-3-3]

11:35~11:50

Relative Age Measurements of the Metal-Poor Globular Clusters M53 and M92

Dong-Hwan Cho (Kyungpook National University, Korea), Hyun-Il Sung, Sang-Gak Lee, and Tae Seog Yoon

[B4A-3-4]

11:50~12:05

Characterization of Faint Photometric and Kinematic Members in the Open Cluster NGC752

Chung-Kai Huang (National Central University, Taiwan), Chien-Cheng Lin, Pei-Yi Chen, A-Li Luo, and Wen-Ping Chen

Poster Session

12:05~12:30

Chair: Daniel Bayliss (Australian National University)



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Session: [B5A-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 22, 2014 (Friday)

Time: 09:00~10:30

Room: Room C (Room 104)

Chair: Wen-Ping Chen (National Central University)

[B5A-3-1]

09:00~09:15

[Invited] Characterising Transiting Exoplanet Systems

Daniel Bayliss (Australian National University , Australia)

[B5A-3-2]

09:15~09:30

[Invited] Circumbinary Planets

Liyong Zhu (Chinese Academy of Sciences, China), Shengbang Qian, Wenping Liao, and Liang Liu

[B5A-3-3]

09:30~09:45

[Invited] High-Contrast Imaging of Exoplanets: Japanese Current and Future Plans

Taro Matsuo (Kyoto University, Japan)

[B5A-3-4]

09:45~10:00

[Invited] Free Floating Planets and Initial Mass Functions

Yumiko Oasa (Saitama University, Japan)

[B5A-3-5]

10:00~10:15

Developing a Multispectral Source Finder for Direct Imaging of Exoplanets

Inseok Song (The University of Georgia, USA) and Jinhee Lee

[B5A-3-6]

10:15~10:30

The MINERVA Project: Small Exoplanets from Small Telescopes

Rob Wittenmyer (University of New South Wales, Australia), John Johnson, Jason Wright, and Nate McCrady



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Session: [B5B-3] S3 : Stars, Exoplanets and Stellar Systems

Date: August 22, 2014 (Friday)

Time: 11:00~12:30

Room: Room C (Room 104)

Chair: Puji Irawati (National Astronomical Research Institute of Thailand)

[B5B-3-1]

11:00~11:15

The BIMA Project: O-C Diagrams of Eclipsing Binaries' Systems

Gabriela Kezia Haans (Institut Teknologi Bandung, Indonesia), Dhimaz Gilang Ramadhan, Saeful Akhyar, Rhisa Azaliah, Janette Suherli, Puji Irawati, Zainuddin Muhammad Arifin, Thawicharat Sarotsakulchai, Andrea Richichi, Rifqi Wisnu Aryawardhana, Hakim Luth

[B5B-3-2]

11:15~11:30

The New Eclipsing Post Common-Envelope Binary SDSS J074548.63+263123.4

Niwat Hemha (Suranaree University of Technology, Thailand), Nuanwan Sanguansak, Puji Irawati, Vik Dhillon, and Tom R. Marsh

[B5B-3-3]

11:30~11:45

Low Mass Stars in Eclipsing Binary Systems

Priyanka Chaturvedi (Physical Research Laboratory, India), Abhijit Chakraborty, B.G. Anandarao, and Vaibhav Dixit

[B5B-3-4]

11:45~12:00

Low-Resolution Spectroscopic Studies for the Globular Clusters with Multiple Populations

Dongwook Lim (Yonsei University, Korea), Sang-II Han, Dong-Goo Roh, and Young-Wook Lee

Poster Session

12:00~12:30

Chairs: Puji Irawati (National Astronomical Research Institute of Thailand)

Wen-Ping Chen (National Central University)



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Poster Presentation

P3-01 Speckle Observation of Visual Double Stars at Bosscha Observatory: Separation and Magnitude Difference Limits

I Putu Wira Hadiputrawan (Institut Teknologi Bandung, Indonesia), Mahasena Putra, Mochamad Irfan, and Muhammad Yusuf

P3-02 On the Embedded Binary Systems and Separated Roche Lobes

Li-Chin Yeh (National Hsinchu University of Education, Taiwan) and Ing-Guey Jiang

P3-03 Introducing tlc_s05: A Code to Fit Cepheid JHK Band Light Curves using Templates Approach

Chow-Choong Ngeow (National Central University, Taiwan) and Shashi M. Kanbur

P3-04 Periodic Variability of RY TAU

Ismailov N. Z. (Shamakhy Astrophysical Observatory of Azerbaijan NAS, Azerbaijan)

P3-05 Photometry and H α studies of a Deep Low Mass Ratio Overcontact binary ASAS J082243+1927.0

K. Sriram (Osmania University, India), Shanti Priya, and P. Vivekananda Rao

P3-06 Spectroscopic Analysis of the R Canis Majoris Binary System

N. A-thano (Chiang Mai University, Thailand), D. E. Mkrichian, and S. Komonjinda

P3-07 Locations of Out-of-Plane Equilibrium Points in Elliptic Restricted Three-Body Problem under the Radiation and Oblateness Effects

I. N. Huda (Bandung Institute of Technology, Indonesia), B. Dermawan, R. W. Wibowo, T. Hidayat, J. A. Utama, D. Mandey, and I. Tampubolon

P3-08 Spectroscopic analysis of RS CVn star EI Eri

J. Keeratibharat (Chiang Mai University, Thailand), D. E. Mkrichian, and S. Komonjinda

P3-09 The Nearest High-Velocity Stars Revealed by LAMOST Data Release

Jing Zhong (Shanghai Astronomical Observatory, China), Li Chen, Chao Liu, and Richard de Grijs

P3-10 Close-in Stellar Companions in Close Binary Stars

Liao wenping (Yunnan Observatories, China), Shengbang Qian, Liying Zhu, and Liang Liu

P3-11 Modeling the Binaries for Predicting Asteroseismic Observables

Ki-Beom Kim (Kyungpook National University, Korea) and Heon-Young Chang

P3-12 Contact Binaries in the Field of the Stellar Clusters

Liu Liang (Yunnan Observatories, China), Qian Shengbang, and Zhu Liying



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P3-13 Long-Term Light Curve and Periodic Analysis of the Young Variable GM Cephei

Po-Chieh Huang (National Central University, Taiwan), Chang-Yao Chen, Chia-Ling Hu, and Wen-Ping Chen

P3-14 Effect of Rotation on the Evolution of Pop III Protostars

Hunchul Lee (Seoul National University, Korea) and Sung-Chul Yoon

P3-15 Correlation Between Microturbulence And Nonradial Pulsations In Iota Herculis

N. M. M. Said (University of Science Malaysia, Malaysia), M. M. Razelan, H. Y. Chong, A. H. A. A., and M. Z. Zainuddin

P3-16 On Correlation Of Microturbulence And The Line Depth Of SII Line Profile In Iota Herculis

N. M. M. Said (University of Science Malaysia, Malaysia), M. M. Razelan, H. Y. Chong, A. H. A. A., and M. Z. Zainuddin

P3-17 Study of the Relation between Asteroseismic Observables and the Number of Observed Modes

Ki-Beom Kim (Kyungpook National University, Korea) and Heon-Young Chang

P3-18 Follow-up Photometry of Two New Eclipsing PCEBs from the Sloan Digital Sky Survey

Kittipong Wangnok (Suranaree University of Technology, Thailand), Nuanwan Sanguansak, Puji Irawati, Vik Dhillon, and Tom R. Marsh

P3-19 Analysis of the Eclipsing Binaries SDSS J1021+1744: a WDMS System with Unusual Dips

Khunagorn Chantorn (Suranaree University of Technology, Thailand), Nuanwan Sanguansak, Puji Irawati, Vik Dhillon, and Tom R. Marsh

P3-20 Validation of LAMOST Stellar Parameters

Huawei Zhang (Peking University, China), Hua Gao, Maosheng Xiang, Yang Huang, Xiaowei Liu, Ali Luo, and Haotong Zhang

P3-21 Microlensing by a Wide-Separation Planet: Detectability and Boundness

Yoon-Hyun Ryu (Kyungpook National University, Korea), Myeong-Gu Park, Heon-Young Chang, and Ki-Won Lee

P3-22 The Oosterhoff Period Groups and Multiple Populations in Globular Cluster

Sohee Jang (Yonsei University, Korea), Young-Wook Lee, Seok-Joo Joo, and Chongsam Na

P3-23 Detection Level Enhancement of Gravitational Microlensing Events From The Light Curves

Ichsan Ibrahim (Institute Technology of Bandung, Indonesia), Hakim L. Malasan, Mitra Djamil, Chatief Kunjaya, Anton Timur Jelani, and Gerhana Puannandra Putri



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P3-24 **Effect of Overshooting on Evolution of Wolf-Rayet Star**

Wonsoek Chun (Seoul National University, Korea) and S.-C Yoon

P3-25 **Discovery of New Stellar Substructure of M31 System on the Wide-field Near-Infrared Image**

Minhee Kang (Yonsei University, Korea), Sang-Hyun Chun, DooSeok Jung, and Young-Jong Sohn

P3-26 **The Non-linearity Effect on the Color-to-Metallicity Conversion of Globular Clusters in NGC 5128**

Hak-Sub Kim (Yonsei University, Korea) and Suk-Jin Yoon

P3-27 **Identification of Luminous White Dwarf Candidates in the Globular Clusters M13 and M22 Using the HST ACS Photometric Data**

Dong-Hwan Cho (Kyungpook National University, Korea), Tae Seog Yoon, Sang-Gak Lee, and Hyun-Il Sung

P3-28 **Application of BS2fit to the Color-Magnitude Diagrams of Three Star Clusters**

Caiyan Mao (Dali University, China) and Zhongmu Li

P3-29 **Astrometric Observations of Mira variables with VERA**

Akiharu Nakagawa (Kagoshima University, Japan), Toshihiro Omodaka, Toshihiro Handa, and Tatsuya Kamezaki

P3-30 **Photometric Analysis of Magnetic Cataclysmic Variable Star DO Draconis**

Ki-yeong Han (Chungbuk National University, Korea), Joh-Na Yoon, Yonggi Kim, and Ivan L. Andronov

P3-31 **Photometric Study of The Magnetic Cataclysmic Variable RXSJ1803**

Young Hee Kim (Chungbuk National University, Korea), Joh-Na Yoon, Yonggi Kim, and Ivan L. Andronov

P3-32 **A Development of Period Analysis Algorithm for Detection of Variable Star Candidates**

Dong-Heun Kim (Chungbuk National University, Korea), Joh-Na Yoon, Yonggi Kim, Hong-Suh Yim, and Won-Young Han