



ADRIM 2014

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

S5 : Compact Objects, High Energy and Particle Astrophysics

Session: [B2A-5] S5 : Compact Objects, High Energy and Particle Astrophysics

Date: August 19, 2014 (Tuesday)

Time: 11:00~12:25

Room: Room E (Room 107)

Chair: Ronald Taam (Academia Sinica Institute of Astronomy and Astrophysics)

[B2A-5-1]

11:00~11:20

[Invited] Outflow from Hot Accretion Flows

Feng Yuan (Shanghai Astronomical Observatory, China), Defu Bu, and Maochun Wu

[B2A-5-2]

11:20~11:40

[Invited] Gravitational Radiation Captures of Two Black Holes

Gungwon Kang (Korea Institute of Science and Technology Information, Korea), Jakob Hansen, Peter Diener, Hee-Il Kim, and Frank Loeffler

[B2A-5-3]

11:40~11:55

Constraining the Magnetic Field in the Accretion Flow of Low-Luminosity Active Galactic Nuclei

Erlin Qiao (Chinese Academy of Sciences, China) and B. F. Liu

[B2A-5-4]

11:55~12:10

Mass Accretion Rate of Transonic Rotating Accretion Flow

Du Hwan Han (Kyungpook National University, Korea) and Myeong-Gu Park

[B2A-5-5]

12:10~12:25

Accretion-Jet Model for the Hard X-ray Γ -L Correlation in Black Hole Accreting Systems

Qi-Xiang Yang (Shanghai Astronomical Observatory, China), Feng Yuan, and Fu-Guo Xie



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Session: [B2B-5] S5 : Compact Objects, High Energy and Particle Astrophysics

Date: August 19, 2014 (Tuesday)

Time: 14:00~15:25

Room: Room E (Room 107)

Chair: Chang-Hwan Lee (Pusan National University)

[B2B-5-1]

14:00~14:20

[Invited] Latest Results of MAXI (Monitor of All-sky X-ray Image)

Tatehiro Mihara (RIKEN, Japan)

[B2B-5-2]

14:20~14:40

[Invited] Particle Acceleration at Supernova Remnant Shocks

Hyesung Kang (Pusan National University, Korea)

[B2B-5-3]

14:40~14:55

Particle Acceleration and Diffusion in Supernova Remnants in a Multiphase Interstellar Medium

Soonyoung Roh (Nagoya University, Korea), Shu-ichiro Inutsuka, and Tsuyoshi Inoue

[B2B-5-4]

14:55~15:10

Strong Influence of the Galactic Magnetic Field on the Propagation of Ultra-high Energy Cosmic Rays

Jihyun Kim (Ulsan National Institute of Science and Technology, Korea), Hang Bae Kim, and Dongsu Ryu

[B2B-5-5]

15:10~15:25

Spider Invasion Across the Galaxy

David C. Y. Hui (Chungnam National University, Korea)



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Date: August 19, 2014 (Tuesday)

Time: 16:00~17:25

Room: Room E (Room 107)

Chair: Tatehiro Mihara (RIKEN)

[B2C-5-1]

16:00~16:20

[Invited] Neutron Star Structure and Related Astrophysical Problems

Chang-Hwan Lee (Pusan National University, Korea)

[B2C-5-2]

16:20~16:40

[Invited] Multi-Messenger Astronomy of Compact Binaries

Chunglee Kim (Seoul National University, Korea)

[B2C-5-3]

16:40~16:55

Switching States in Pulsar Magnetosphere

Phrudth Jaroenjittichai (National Astronomical Research Institute of Thailand, Thailand) and Michael Kramer

[B2C-5-4]

16:55~17:10

The Electron Fraction and the Fermi Energy of Relativistic Electrons in a Neutron Star

Z. F. Gao (Xinjiang Astronomical Observatory, China) and Q. H. Peng

[B2C-5-5]

17:10~17:25

New Relativistic Magnetohydrodynamic Codes Based on Upwind Schemes

Hanbyul Jang (Ulsan National Institute of Science and Technology, Korea) and Dongsu Ryu



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Session: [B3A-5] S5 : Compact Objects, High Energy and Particle Astrophysics

Date: August 20, 2014 (Wednesday)

Time: 11:00~12:20

Room: Room E (Room 107)

Chair: Hyesung Kang (Pusan National University)

[B3A-5-1]

11:00~11:20

[Invited] The TeV Gamma-Ray Milky Way

Gavin Rowell (University of Adelaide, Australia)

[B3A-5-2]

11:20~11:35

Fast-Cooling Synchrotron Radiation in a Decaying Magnetic Field and Gamma-Ray Burst Emission Mechanism

Z. Lucas Uhm (Peking University, China) and Bing Zhang

[B3A-5-3]

11:35~11:50

Frequency Independent Quenching of Pulsed Emission

Vishal Gajjar (National Centre for Radio Astrophysics, India), Bhal Chandra Joshi, Michael Kramer, Ramesh Kurrupswamy, and Roy Smits

[B3A-5-4]

11:50~12:05

Broadband Turbulent Spectra in Gamma-ray Burst Light Curves

Maurice H. P. M. van Putten (Sejong University, Korea), Cristiano Guidorzi, and Filippo Frontera

[B3C-5-5]

12:05~12:20

Thermal Stability of a Thin Disk with Magnetically Driven Winds

Shuangliang Li (Shanghai Astronomical Observatory, China) and Mitchell Begelman



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Time: 14:00~15:30

Room: Room E (Room 107)

Chair: Maurice van Putten (Sejong University)

[B3B-5-4]

15:00~15:15

Black Hole Binaries from Galactic Nuclei

Hyung-Mok Lee (Seoul National University, Korea) and Jongsuk Hong

[B3B-5-5]

15:15~15:30

The White Dwarf Luminosity, Mass and Age Functions as Revealed by the LAMOST Survey of the Galactic Anti-Center

Alberto Rebassa-Mansergas (Peking University, China), Xiaowei Liu, Haibo Yuan, Ruxandra Cojocaru, Enrique Garcia-Berro, and Santiago Torres



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[B3C-5-1]

16:00~16:15

The Interaction of Microquasar Jets with a Stellar Wind in High-Mass X-ray Binaries

DooSoo Yoon (University of Wisconsin-Madison, USA) and Sebastian Heinz

[B3C-5-2]

16:15~16:30

The Effect of X-ray Irradiation on the Time Dependent Behavior of Accretion Disks with Stochastic Perturbations

Bari Maqbool (University of Kashmir, India), Ranjeev Misra, and Naseer Iqbal

[B3C-5-3]

16:30~16:45

Quantum Interference Effects in Spacetime of Slowly Rotating Compact Objects in Conformal Weyl Gravity

Abdullo Hakimov (Ulugh Beg Astronomical Institute, Uzbekistan)

[B3C-5-4]

16:45~17:00

Multi-Observation Identification for Studying the Evolution of Spin-Up Line

Ali Taani (Al-Balqa' Applied University, Jordan)

Poster Session

17:00~17:30

Chairs: Gavin Rowell (University of Adelaide)

Maurice van Putten (Sejong University)



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Poster Presentation

P5-01 Structure of ADAFs with Outflows: the Role of Toroidal Magnetic Fields

Amin Mosallanezhad (Shanghai Astronomical Observatory, China) and Shahram Abbassi

P5-02 Density Dependence of B-parameter of Relativistic Strange Stars with Anisotropy

Pradip Kumar Chattopadhyay (Alipurduar College, India)

P5-03 Studies on Axions as the Energy Source in Magnetar

Pranita Das (Pandu College, India), H. L. Duorah, and Kalpana Duorah

P5-04 TeV-PeV Neutrinos and Gamma-Rays from Newly Born Magnetars

R. K. Dey (North Bengal University, India) and S. Dam

P5-05 A Study of Dynamical Cross-Correlation Function and Power Density Spectrum in a Black Hole Source XTE

K. Sriram (Osmania University, India), C. S. Choi, and A. R. Rao

P5-06 The Updated Orbital Ephemeris of Low Mass X-ray Binary 4U 1323-62

Po-sheng Chuang (National Central University, Taiwan), Yi Chou, Chin-Ping Hu, Ting-Chang Yang, Yi-Hao Su, Nai-Hui Liao, Hung-En Hsieh, and Ching-Ping Lin

P5-07 Applications of the Hilbert-Huang Transform on the Non-stationary Astronomical Time Series: the Superorbital Modulation of SMC X-1 and the QPO of RE J1034+396

Chin-Ping Hu (National Central University, Taiwan), Yi Chou, Ting-Chang Yang, Yi-Hao Su, Hung-En Hsieh, Po-Sheng Chuang, Ching-Ping Lin, and Nai-Hui Liao

P5-08 Characterizing the Time-Frequency Properties of the 4 Hz Quasi-Periodic Oscillation Around the Black Hole X-ray Binary XTE J1550-564

Yi-Hao Su (National Central University, Taiwan), Yi Chou, Chin-Ping Hu, Ting-Chang Yang, Hung-En Hsieh, Po-Sheng Chuang, Ching-Ping Lin, and Nai-Hui Liao

P5-09 The Orbital Ephemeris of the Partial Eclipsing X-ray Binary X1822-371

Hung-En Hsieh (National Central University, Taiwan), Yi Chou, Chin-Ping Hu, Ting-Chang Yang, Yi-Hao Su, Ching-Ping Lin, Po-Sheng Chuang, and Nai-Hui Liao

P5-10 On the Complex Variability of the Superorbital Modulation Period of LMC X-4

Chin-Ping Hu (National Central University, Taiwan), Yi Chou, Ting-Chang Yang, Yi-Hao Su, Po-Sheng Chuang, Hung-En Hsieh, Ching-Ping Lin, and Nai-Hui Liao

P5-11 The Updated Orbital Ephemeris of Dipping Low Mass X-ray Binary 4U 1624-49

Nai-Hui Liao (National Central University, Taiwan), Yi Chou, Chin-Ping Hu, Ting-Chang Yang, Yi-Hao Su, Hung-En Hsieh, Ching-Ping Lin, Po-Sheng Chuang



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P5-12 Long-term Variation Study of Cataclysmic Variables with Palomar Transient Factory

Michael Ting-Chang Yang (National Central University, Taiwan), Yi Chou, Chin-Ping Hu, and Yi-Hao Su

P5-13 Timing and Spectral Studies of the Eclipsing High Mass X-ray Binary Pulsar OAO 1657-415

Gaurava K. Jaisawal (Physical Research Laboratory, India) and Sachindra Naik

P5-14 Multi-Wavelength Emission from Dark Matter Pair Annihilation in Local Dwarf Spheroidal Galaxies

Kamal Kumar Tanti (University of Technology and Management, India) and Pranita Das

P5-15 Energetic Processes Around Rotating Black Holes

Ahmadjon Abdujabbarov (Institute of Nuclear Physics, Uzbekistan)

P5-16 Shadow of Rotating Black Holes in Gauss-Bonnet Gravity

Farruh Atamurotov (Institute of Nuclear Physics, Uzbekistan)

P5-17 Monte-Carlo Simulation of a Possible Correlation between the Velocity Distribution and 3-D Neutron Star Orbits

Ali Taani (Al-Balqa' Applied University, Jordan)

P5-18 3-Dimensional Simulation of a Rotating Core-Collapse Supernova

Ko Nakamura (Waseda University, Japan), Takami Kuroda, Tomoya Takiwaki, and Kei Kotake