

RIKEN symposium

7 years of MAXI : monitoring X-ray transients

Monday 05 December 2016 - Wednesday 07 December 2016

RIKEN
Programme

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Monday 05 December 2016

Registration - (09:30-10:00)

Opening remarks - (10:00-10:10)

- Presenters: Prof. MATSUOKA, Masaru

Session 1 : Highlights - (10:10-11:30)

Chair : Prof. KAWAI, Nobuyuki

| time | title | presenter |
|-------|---|------------------------|
| 10:10 | MAXI 7 years highlights | Dr. MIHARA, Tatehiro |
| 10:40 | MAXI-SSC results in 7 years | Prof. TSUNEMI, Hiroshi |
| 11:00 | Discovery of 17 X-ray transients with MAXI/GSC and their nature | Prof. NEGORO, Hitoshi |

Lunch & Poster - (11:30-13:30)

Session 2 : Stellar Mass Black Hole - (13:30-15:00)

Chair : Prof. UEDA, Yoshihiro

| time | title | presenter |
|-------|---|-----------------------|
| 13:30 | Progress Galactic black hole binaries over the past 7 years: a selection of recent results | Dr. RODRIGUEZ, Jerome |
| 14:00 | Violent optical variations and correlation with X-ray variability in the 2015 outbursts in V404 Cygni | Ms. KIMURA, Mariko |
| 14:15 | Two optical emission components with different variability in V404 Cygni | Mr. TACHIBANA, Yutaro |
| 14:30 | Observation of the long-term variability of Cygnus X-1 with MAXI | Ms. SUGIMOTO, Juri |
| 14:45 | Accretion flow properties of three MAXI Black Hole candidates: analysis with TCAF solution | Dr. DEBNATH, Dipak |

Coffee & Poster - (15:00-15:30)

Session 3 : Low Mass X-ray Binaries - (15:30-17:05)

Chair : Prof. MATSUOKA, Masaru

| time | title | presenter |
|-------|--|--------------------------|
| 15:30 | Black holes and neutron stars in Low Mass X-ray binaries | Prof. DONE, Chris |
| 16:00 | Spectral states in NS-LMXBs observed with MAXI/GSC and Swift/BAT | Dr. ASAI, Kazumi |
| 16:20 | Overview of spectral change in NS-LMXB | Dr. TAKAHASHI, Hiromitsu |
| 16:50 | Unveiling the spectral transition of Aql X-1 from the hard to soft state | Mr. ONO, Ko |

Session 4 : GRB - (17:05-18:10)

Chair : Dr. SAKAMOTO, Takanori

| time | title | presenter |
|-------|--|------------------------------|
| 17:05 | Short-GRB rate from Yonetoku relation for SGRB and the detectability of GW in O2 of aLIGO/aVirgo | Prof. NAKAMURA, Takashi |
| 17:20 | GRB radio view from all angles | Dr. VAN DER HORST, Alexander |
| 17:40 | GRBs with MAXI and CALET | Dr. NAKAHIRA, Satoshi |
| 17:55 | POLAR - The gamma-ray burst polarimetry experiment onboard China's TG-2 spacelab | Prof. ZHANG, Shuang-Nan |

Note : 30 min talk = 25 + 5 min discussion / 25 min talk = 20 + 5 min discussion
 / 20 min talk = 15 + 5 min discussion / 15 min talk = 12 + 3 min discussion

Tuesday 06 December 2016

Session 5 : MAXI Transients - (09:00-10:35)

Chair : Prof. NEGORO, Hitoshi

| time | title | presenter |
|-------|--|----------------------------|
| 09:00 | Quick review of X-ray transients | Prof. NEGORO, Hitoshi |
| 09:05 | Swift/MAXI transient collaboration: 7 years of success | Dr. KENNEA, Jamie |
| 09:35 | On the orbital period of MAXI J1305-704 | Dr. SHAW, Aarran |
| 09:50 | A multi-wavelength view of jets in accreting binaries | Prof. CORBEL, Stephane |
| 10:20 | Novae with super-Eddington luminosities | Prof. SHIGEYAMA, Toshikazu |

Session 6 : Superbursts - (10:35-11:25)

Chair : Dr. IWAKIRI, Wataru

| time | title | presenter |
|-------|--------------------------------|----------------------|
| 10:35 | Understanding superbursts | Dr. IN 'T ZAND, Jean |
| 11:05 | MAXI detections of superbursts | Dr. SERINO, Motoko |

Session 7 : MAXI Archive - (11:25-11:40)

Chair : Dr. IWAKIRI, Wataru

| time | title | presenter |
|-------|------------------------|--------------------|
| 11:25 | MAXI data archive plan | Prof. EBISAWA, Ken |

Lunch & Poster - (11:40-13:30)

Session 8 : Steller Flares - (13:30-14:40)

Chair : Dr. SUGAWARA, Yasuharu

| time | title | presenter |
|-------|---|-------------------------|
| 13:30 | X-ray study of stellar flares | Prof. TSUBOI, Yohko |
| 13:55 | Superflares on Sun-like stars | Prof. SHIBATA, Kazunari |
| 14:25 | Transient magnetars and magnetic field evolution of neutron stars | Dr. ENOTO, Teruaki |

Coffee & Poster - (14:40-15:10)

Session 9 : AGN - (15:10-16:30)

Chair : Dr. ISOBE, Naoki

| time | title | presenter |
|-------|---|------------------------|
| 15:10 | Hard X-ray luminosity function of tidal disruption events: first results from MAXI extragalactic survey | Mr. KAWAMURO, Taiki |
| 15:25 | First statistical tests for clumpy-torus models: constraints from RXTE monitoring of Seyfert AGN | Dr. MARKOWITZ, Alex |
| 15:55 | A Novel view of AGN accretion flows revealed by X-ray and optical monitoring | Prof. MAKISHIMA, Kazuo |
| 16:15 | An X-ray spectral variability of fast disk winds in AGN | Dr. HAGINO, Kouichi |

Session 10 : Science from Hitomi - (16:30-18:00)

Chair : Prof. MAKISHIMA, Kazuo

| time | title | presenter |
|-------|--|-----------------------|
| 16:30 | Science from Hitomi: Introduction | Prof. OHASHI, Takaya |
| 16:35 | Hitomi observation of the Perseus cluster - gas motions and resonant scattering - | Dr. SATO, Kosuke |
| 16:59 | Hitomi observation of the Perseus cluster - temperature and elemental abundances - | Dr. NAKASHIMA, Shinya |
| 17:23 | Hitomi results of NGC 1275: the origin of Fe-K alpha Line | Dr. NODA, Hirofumi |
| 17:41 | Hitomi observation of the supernova remnant N132D in the Large Magellanic Cloud | Dr. KATSUDA, Satoru |

Banquet - Hirosawa Club (18:15-20:30)

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Wednesday 07 December 2016

Session 11 : Binary X-ray pulsars - (09:00-11:55)

Chair : Dr. MIHARA, Tatehiro

| time | title | presenter |
|-------|---|--------------------------|
| 09:00 | Monitoring activities of X-ray binary pulsars with Fermi/GBM | Dr. JENKE, Peter |
| 09:30 | Luminosity and spin-up relation in X-ray binary pulsars with MAXI/GSC and Fermi/GBM | Dr. SUGIZAKI, Mutsumi |
| 10:00 | Monitoring Supergiant Fast X-ray Transients with Swift and XMM-Newton | Dr. BOZZO, Enrico |
| 10:15 | MAXI/GSC observation of X-ray outbursts from Be/X-ray binary pulsars | Dr. NAKAJIMA, Motoki |
| 10:40 | Cyclotron absorption lines in the era of Suzaku and NuSTAR | Mr. GAURAVA K., Jaisawal |
| 10:55 | Indian Astro-sat : results in the first year | Prof. PAUL, Biswajit |
| 11:25 | The Hard X-ray Modulation Telescope mission | Prof. ZHANG, Shuang-Nan |
| 11:40 | X-ray polarimetry mission PRAXyS | Dr. TORU, Tamagawa |

Lunch & Poster Session - (11:55-13:50)

Session 12 : Gravitational wave sources - (13:50-15:40)

Chair : Dr. SERINO, Motoko

| time | title | presenter |
|-------|---|-----------------------|
| 13:50 | Advanced LIGO first light: multimessenger astrophysics at the birth of gravitational-wave observatory | Dr. SINGER, Leo |
| 14:20 | Binary black hole remnants of first stars for the gravitational wave source | Dr. KINUGAWA,, Tomoya |
| 14:35 | Search for X-ray counterparts of gravitational wave events | Prof. KAWAI, Nobuyuki |
| 14:55 | X-ray Transient Localization Experiment aboard a micro-satellite for multi-messenger counterpart search | Mr. SAWANO, Tatsuya |
| 15:10 | Einstein Probe -- a small mission to explore the transient X-ray sky | Dr. YUAN, Weimin |

Closing remarks - (15:40-15:50)

- Presenters: Prof. MAKISHIMA, Kazuo

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