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

<table>
<thead>
<tr>
<th>time</th>
<th>title</th>
<th>presenter</th>
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<tbody>
<tr>
<td>10:10</td>
<td>MAXI 7 years highlights</td>
<td>Dr. MIHARA, Tatehiro</td>
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<tr>
<td>10:40</td>
<td>MAXI-SSC results in 7 years</td>
<td>Prof. TSUNEMI, Hiroshi</td>
</tr>
<tr>
<td>11:00</td>
<td>Discovery of 17 X-ray transients with MAXI/GSC and their nature</td>
<td>Prof. NEGORO, Hitoshi</td>
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Lunch & Poster - (11:30-13:30)

Session 2 : Stellar Mass Black Hole - (13:30-15:00)
Chair : Prof. UEDA, Yoshihiro

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

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

Session 3 : Low Mass X-ray Binaries - (15:30-17:05)
Chair : Prof. MATSUOKA, Masaru

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<tr>
<th>time</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Black holes and neutron stars in Low Mass X-ray binaries</td>
<td>Prof. DONE, Chris</td>
</tr>
<tr>
<td>16:00</td>
<td>Spectral states in NS-LMXBs observed with MAXI/GSC and Swift/BAT</td>
<td>Dr. ASAI, Kazumi</td>
</tr>
<tr>
<td>16:20</td>
<td>Overview of spectral change in NS-LMXB</td>
<td>Dr. TAKAHASHI, Hiromitsu</td>
</tr>
<tr>
<td>16:50</td>
<td>Unveiling the spectral transition of Aql X-1 from the hard to soft state</td>
<td>Mr. ONO, Ko</td>
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Session 4 : GRB - (17:05-18:10)
### Chair: Dr. SAKAMOTO, Takanori

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>17:05</td>
<td>Short-GRB rate from Yonetoku relation for SGRB and the detectability of GW in O2 of aLIGO/aVirgo</td>
<td>Prof. NAKAMURA, Takashi</td>
</tr>
<tr>
<td>17:20</td>
<td>GRB radio view from all angles</td>
<td>Dr. VAN DER HORST, Alexander</td>
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<tr>
<td>17:40</td>
<td>GRBs with MAXI and CALET</td>
<td>Dr. NAKAHIRA, Satoshi</td>
</tr>
<tr>
<td>17:55</td>
<td>POLAR - The gamma-ray burst polarimetry experiment onboard China's TG-2 spacelab</td>
<td>Prof. ZHANG, Shuang-Nan</td>
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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
Session 5 : MAXI Transients - (09:00-10:35)

Chair : Prof. NEGORO, Hitoshi

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<tr>
<th>time</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Quick review of X-ray transients</td>
<td>Prof. NEGORO, Hitoshi</td>
</tr>
<tr>
<td>09:05</td>
<td>Swift/MAXI transient collaboration: 7 years of success</td>
<td>Dr. KENNEA, Jamie</td>
</tr>
<tr>
<td>09:35</td>
<td>On the orbital period of MAXI J1305-704</td>
<td>Dr. SHAW, Aarran</td>
</tr>
<tr>
<td>09:50</td>
<td>A multi-wavelength view of jets in accreting binaries</td>
<td>Prof. CORBEL, Stephane</td>
</tr>
<tr>
<td>10:20</td>
<td>Novae with super-Eddington luminosities</td>
<td>Prof. SHIGEYAMA, Toshikazu</td>
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Session 6 : Superbursts - (10:35-11:25)

Chair : Dr. IWAKIRI, Wataru

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<tbody>
<tr>
<td>10:35</td>
<td>Understanding superbursts</td>
<td>Dr. IN 'T ZAND, Jean</td>
</tr>
<tr>
<td>11:05</td>
<td>MAXI detections of superbursts</td>
<td>Dr. SERINO, Motoko</td>
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</table>

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

Chair : Dr. IWAKIRI, Wataru

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<tbody>
<tr>
<td>11:25</td>
<td>MAXI data archive plan</td>
<td>Prof. EBISAWA, Ken</td>
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Lunch & Poster - (11:40-13:30)

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

Chair : Dr. SUGAWARA, Yasuhiro

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<tr>
<td>13:30</td>
<td>X-ray study of stellar flares</td>
<td>Prof. TSUBOI, Yohko</td>
</tr>
<tr>
<td>13:55</td>
<td>Superflares on Sun-like stars</td>
<td>Prof. SHIBATA, Kazunari</td>
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<tr>
<td>14:25</td>
<td>Transient magnetars and magnetic field evolution of neutron stars</td>
<td>Dr. ENOTO, Teruaki</td>
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Coffee & Poster - (14:40-15:10)

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

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

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

*Chair : Prof. MAKISHIMA, Kazuo*

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<tbody>
<tr>
<td>16:30</td>
<td>Science from Hitomi: Introduction</td>
<td>Prof. OHASHI, Takaya</td>
</tr>
<tr>
<td>16:35</td>
<td>Hitomi observation of the Perseus cluster - gas motions and resonant scattering -</td>
<td>Dr. SATO, Kosuke</td>
</tr>
<tr>
<td>16:59</td>
<td>Hitomi observation of the Perseus cluster - temperature and elemental abundances -</td>
<td>Dr. NAKASHIMA, Shinya</td>
</tr>
<tr>
<td>17:23</td>
<td>Hitomi results of NGC 1275: the origin of Fe-K alpha Line</td>
<td>Dr. NODA, Hirofumi</td>
</tr>
<tr>
<td>17:41</td>
<td>Hitomi observation of the supernova remnant N132D in the Large Magellanic Cloud</td>
<td>Dr. KATSUDA, Satoru</td>
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**Banquet - Hirosawa Club (18:15-20:30)**

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
## Wednesday 07 December 2016

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

**Chair:** Dr. MIHARA, Tatehiro

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<th>Time</th>
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<tr>
<td>09:00</td>
<td>Monitoring activities of X-ray binary pulsars with Fermi/GBM</td>
<td>Dr. JENKE, Peter</td>
</tr>
<tr>
<td>09:30</td>
<td>Luminosity and spin-up relation in X-ray binary pulsars with MAXI/GSC and Fermi/GBM</td>
<td>Dr. SUGIZAKI, Mutsumi</td>
</tr>
<tr>
<td>10:00</td>
<td>Monitoring Supergiant Fast X-ray Transients with Swift and XMM-Newton</td>
<td>Dr. BOZZO, Enrico</td>
</tr>
<tr>
<td>10:15</td>
<td>MAXI/GSC observation of X-ray outbursts from Be/X-ray binary pulsars</td>
<td>Dr. NAKAJIMA, Motoki</td>
</tr>
<tr>
<td>10:40</td>
<td>Cyclotron absorption lines in the era of Suzaku and NuSTAR</td>
<td>Mr. GAURAVA K., Jaisawal</td>
</tr>
<tr>
<td>10:55</td>
<td>Indian Astro-sat : results in the first year</td>
<td>Prof. PAUL, Biswajit</td>
</tr>
<tr>
<td>11:25</td>
<td>The Hard X-ray Modulation Telescope mission</td>
<td>Prof. ZHANG, Shuang-Nan</td>
</tr>
<tr>
<td>11:40</td>
<td>X-ray polarimetry mission PRAXyS</td>
<td>Dr. TORU, Tamagawa</td>
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**Lunch & Poster Session** - (11:55-13:50)

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

**Chair:** Dr. SERINO, Motoko

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:50</td>
<td>Advanced LIGO first light: multimessenger astrophysics at the birth of gravitational-wave observatory</td>
<td>Dr. SINGER, Leo</td>
</tr>
<tr>
<td>14:20</td>
<td>Binary black hole remnants of first stars for the gravitational wave source</td>
<td>Dr. KINUGAWA, Tomoya</td>
</tr>
<tr>
<td>14:35</td>
<td>Search for X-ray counterparts of gravitational wave events</td>
<td>Prof. KAWAI, Nobuyuki</td>
</tr>
<tr>
<td>14:55</td>
<td>X-ray Transient Localization Experiment aboard a micro-satellite for multi-messenger counterpart search</td>
<td>Mr. SAWANO, Tatsuya</td>
</tr>
<tr>
<td>15:10</td>
<td>Einstein Probe -- a small mission to explore the transient X-ray sky</td>
<td>Dr. YUAN, Weimin</td>
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**Closing remarks** - (15:40-15:50)

- Presenters: Prof. MAKISHIMA, Kazuo

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