

Status of RSDC

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RSDC

- *Supports the archive of all publicly available + Russian PI data*
- *Has the current OSA (OSA-11 !) + Russian INTEGRAL software installed*
- *Is used by IKI scientists, scientists from Sternberg Astronomical Institute (Moscow University), Kazan University, Ioffe Institute, Pulkovo Observatory, Lebedev Physical Institute, Moscow Engineering Physics and Moscow Technical Physics Institutes*
- *Uses Russian optical telescopes for identification (and study) of new IGR sources (RTT-150 at Turkey, 6-m telescope at Nizhnii Arkhyz, AZT33IK at Sibirya/Monds)*

RSDC

- *Supported by the Russian Academy of Sciences and Space Research Institute*
- *Archive data occupy now more than 35 Tb + 19 Tb working field (3 SUNs +1 Fujitsu servers)*
- *Garantee time exceeded, many of the disks are not working now*
- *There was possibility to use resources of the SRG Data Center (10 computer servers, 200 Tb) but it may dissaper after the launch of SRG in 2019 April.*
- *New server with a large HDD field was purchased:
Supermicro (CPU Intel Xeon E5-2620v4 2.1GHz Mem 32 Gb)
HDD 80 Tb (60Tb under RAID 6)*

X-ray Transient Monitoring in 2018

- **INTEGRAL detected the beginning of a new X-ray outburst of BHC IGR J17464-3213 (Grebenev, Mereminskiy) [ATel 12007](#)**
- **Deep INTEGRAL, NuSTAR and Swift ToO observations of accretion-powered millisecond pulsar IGR J17591-2342... (Kuiper, Tsygankov, Falanga, Galloway, Poutanen, Mereminskiy) [ATel 12004](#)**
- **New X-ray outburst of accreting millisecond pulsar SWIFT J1756.9-2508 detected by INTEGRAL (Mereminskiy, Grebenev, Krivonos, Sunyaev) [ATel 11497](#)**
- **Low-frequency QPOs in MAXI J1820+070 as seen by INTEGRAL/SPI (Mereminskiy, Grebenev, Molkov, Zaznobin, Khorunzhev, Burenin, Eselevich) [ATel 11488](#)**
- **Improved position and possible optical counterpart for the new X-ray transient Swift J1658.2-4242 (Mereminskiy, Grebenev) [ATel 11307](#)**
- **INTEGRAL observations of the new X-ray transient Swift J1658.2-424 (Grebenev, Mereminskiy, Prosvetov, Ducci, Bozzo, Savchenko, Ferrigno) [ATEL 11306](#)**

Russian INTEGRAL theses

- *PhD - 12 (RSDC: Chelovekov, Tsygankov, Shtykovskii, Krivonos, Molkov, Karasev, Filippova, Prosvetov, others: Arefiev, Minaev, Krassilshikov, Mereminskiy)*
- *Expected PhD - 1 (Khorunzhev by the end of 2018)*
- *DSc - 5 (RSDC: [Revnivtsev], Sazonov, Lutovinov, others: Bikmaev, Seifina)*

Russian INTEGRAL awards

- 2017 Eugene M. Churazov, Marat R. Gilfanov
A.A. Belopolsky Prize in Astrophysics by the Russian Academy of Sciences
(for their work "X-ray diagnostic of accreting flows around black holes and neutron stars in the Milky Way and other galaxies")
- 2014 Eugene Churazov
COSPAR Massey Award
(for "outstanding contributions to the development of space research")
- 2013 Sergei A. Grebenev, Alexander A. Lutovinov, and Sergei V. Molkov
F.A. Bredikhin Prize in Astronomy by the Russian Academy of Sciences
(for "Discovery and study of the origin of the Fast X-ray Transients – a new population of massive X-ray binaries")
- 2013 A.A. Lutovinov, R.A. Burenin, M.G. Revnivitsev, D.I. Karasev, S.Yu. Sazonov, I.F. Bikmaev, R.A. Krivonos, O.V. Sholukhova, and A.F. Valeev
International Academic Publishing Company (IAPC) "Nauka/Interperiodica" (Pleades Publishing, Inc.) Prize for the best publications in 2012
(for the cycle of papers "Determining the origin of the hard X-ray sources from the INTEGRAL and SWIFT all-sky surveys")

Russian INTEGRAL awards

- 2012 S.A. Grebenev, N.A. Eismont
ESA Certificates
(in "recognition of the outstanding contribution made to the INTEGRAL Mission")
- 2008 M.G. Revnivitsev
Prize of the President of the Russian Federation in the field of science and innovations for young scientists
(for his "contribution in understanding the nature of Galactic and extragalactic X-ray sources")
- 2007 R.A. Sunyaev, D.A. Varshalovich, S.A. Grebenev, V.V. Zheleznyakov, A.A. Lutovinov, S.V. Molkov, M.G. Revnivitsev, S.Yu. Sazonov, A.M. Cherepashchuk, and E.M. Churazov
IAPC "Nauka/Interperiodica" First Prize for the best publications in 2006
(for the cycle of papers "Survey of the central regions of the Galaxy in hard X-rays by the orbiting observatory INTEGRAL - discovery of new accreting neutron stars and black holes")

Russian INTEGRAL awards

- 2007 Roman Krivonos, Sergey Tsygankov, Pavel Shtykosvkiy,
Medal with Prize by the Russian Academy of Sciences for young scientists
(for their study of "INTEGRAL hard-X-ray survey of the whole sky")
- 2006 Mikhail G. Revnivitsev
Ya.B. Zeldovich Medal to young scientists by COSPAR
(for the solution of the problem of origin of background X-ray radiation of the Galaxy)