

R E P O R T

to the ESA Astronomy Working Group by the INTEGRAL Mission Scientist
on activity since 2005, January, till 2007, March

The list of my specific tasks was agreed with the INTEGRAL Project Scientist soon after my appointment and includes the following items. As the Mission Scientist I should

- Monitor and analyze the progress for the instrument development and for the science ground segment development
- Support development of the Russian Science Data Center for INTEGRAL (RSDC), develop, establish and maintain interfaces between the RSDC, the ISDC and the Russian scientific community
- Science operations (GRANAT experience for INTEGRAL)
- Monitor development of science for: explosive nucleosynthesis (with special view on the formation of X- and gamma-ray emission of SN and novae), timing and spectroscopy of Galactic compact objects, X-ray properties of BH candidates and high energy transients

During the last two years my work included the following main activities:

- Organization of the 6th INTEGRAL Workshop “The Obscured Universe” at the Space Research Institute, Moscow, on July 3–7, 2006 — Co-Chair of the Local Organizing Committee and Scientific Advisory Committee (preparation of the workshop web-pages, circulars, scientific program, abstract book, proceedings, including organization of refereeing process, and other related activity).
- Participation in preparations (scientific aspects) for INTEGRAL observations of the dark Earth to study the cosmic X-ray background (the study proposed in my report at the ISWT meeting #35 and then successfully performed).
- Organization of 4 meetings of the Russian Advisory Committee for INTEGRAL (RAC) at the Space Research Institute, Moscow. During the meetings the Committee members discussed the status of work of Russian scientists with INTEGRAL data, the Russian proposals submitted for INTEGRAL observations (in response to the AO-4) and the ways of advertising INTEGRAL among the broad Russian scientific community.
- Support of the RSDC work and maintenance interfaces with the ISDC and the Russian scientific community, preparation (together with Prof. Sunyaev) of requests to the Russian Academy of Sciences for funding the RSDC (to purchase an additional equipment).
- Monitoring of development of science by Russian scientists (based on INTEGRAL data) for Galactic compact objects, especially BH candidates and fast X-ray transients; regular reporting on this development at the ISWT meetings.

Since 2005, January I took part in the work of 6 ISWT meetings (#36–41). My reports can be found in the minutes of the meetings. In addition, I gave a talk about INTEGRAL and the Russian participation in the project at the Conference “High Energy Astrophysics-2005”, held at the Space Research Institute in 2005, December, talks about INTEGRAL status and results at the RAC meetings (see above) and several talks on scientific results obtained with INTEGRAL at other conferences.

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