

The 7-year view of the accreting X-ray binaries in the Galaxy with INTEGRAL

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ABSTRACT

During seven years of successful work, the INTEGRAL observatory have performed the deepest ever survey of accreting binaries with compact objects. Types of faint accreting binaries, available to INTEGRAL within our Galaxy, are beyond reach of any other orbital observatories both in our and in distant galaxies. I will present the latest observational results of the INTEGRAL Galactic survey including counting individual sources and study of the unresolved hard X-ray emission, and will make emphasis on studies of populations of sources. Different samples of sources, gathered by INTEGRAL allow us to probe a variety of astrophysical phenomena, among which one can name models of evolution of stellar binaries, and their distribution in the Galaxy, distribution of strength of magnetic field of young and old neutron stars, history of star formation and much more.