The OMC optical counterparts of the high energy sources observed by INTEGRAL.

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Abstract

OMC, the Optical Monitoring Camera onboard INTEGRAL, has been monitoring during 22 years the optical emission of hundreds of high-energy sources. OMC takes one image of its $5^{o}\times5^{o}$ field of view every 10, 50 or 200 seconds, downloading the photometric data for around 100 objects in each exposure, including the optical emission of the high-energy targets being observed simultaneously by the other instruments on INTEGRAL: IBIS, SPI and JEM-X. In this contribution we review some of the most interesting results derived from the joint analysis of optical and high energy data obtained by the different instruments on INTEGRAL, including AGN, X-ray binaries, cataclysmic variables and even supernovae. Once the INTEGRAL mission has been completed, we are working on the OMC final catalogue containing the light curves and variability analysis of all the sources monitored by OMC during its lifetime, both the main high energy sources and the thousands of serendipitous optical targets.

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