

First catalogue of variable sources observed by INTEGRAL/OMC

Julia Alfonso-Garzón¹, Albert Domingo¹, and J. Miguel Mas-Hesse¹

¹ Centro de Astrobiología (INTA-CSIC)

Abstract

The Optical Monitoring Camera (OMC) onboard INTEGRAL provides photometry in the V Johnson band. With an aperture of 50 mm and a field of view of $5^\circ \times 5^\circ$, OMC is able to detect optical sources brighter than around $V \sim 18$ from a previously selected list of potential targets of interest. This first catalogue of variable sources observed by OMC contains more than 5000 variable objects. The long time interval of the observations (more than 7 years) allowed us to study the potential periodicity of these sources determining periods for more than 1000 objects.