

Calibration and Standardization of Large Surveys and Missions in Astronomy and Astrophysics



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Defining High-Energy Calibration Standards: IACHEC (International Astronomical Consortium for High-Energy Calibration)

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The International Astronomical Consortium for High-Energy Calibration (IACHEC) aims to provide standards for high energy calibration and supervise cross-calibration between different X-ray and Gamma-ray observatories. This goal is reached through Working Groups, involving around 40 astronomers worldwide. In these Groups, IACHEC members co-operate to define calibration standards and procedures. Their scope is primarily a practical one: a set of astronomical sources, data and results (eventually published in refereed journals) will be the outcome of a co-ordinated and standardized analysis of reference sources ("high-energy standard candles"). We briefly describe here just two of the many studies undertaken by the IACHEC; a cross-calibration analysis of O and Ne line fluxes from the thermal SNR 1E0102.2-7219, and at higher energies a comparison study of a sample of cluster temperatures and fluxes. A more detailed picture of the activities of the IACHEC is available via the information portal at <http://web.mit.edu/iachec/>.

Primary author: Dr MARSHALL, Herman (MIT Kavli Institute)

Co-author: Dr GUAINAZZI, Matteo (ESAC/ESA)

Presenter: Dr MARSHALL, Herman (MIT Kavli Institute)

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