X-RAY ASTRONOMY 2019
Current Challenges and New Frontiers in the Next Decade
8-13 September 2019
CNR/INAF Research Area, Bologna, Italy

ID de la contribución: **36** Tipo: **Poster**

A Catalogue of XMM-Newton BL Lacs

viernes, 13 de septiembre de 2019 17:00 (2 minutos)

A {\it XMM-Newton} catalogue of BL Lac X-ray properties is presented based on the cross-correlation with the 1374 BL Lacs listed in the 13th edition of the V\'{e}ron-Cetty and V\'{e}ron (2010) catalogue. {X-ray counterparts to these objects are searched in the field of view of around 10000 {\it XMM-Newton} pointed observations. The cross-correlation yielded a total of 352 {\it XMM-Newton} observations which corresponds to 102 different sources. Data from the three EPIC cameras and OM were homogeneously analysed using the {\it XMM-Newton} SAS software. Images, lightcurves and spectral products are produced for those BL Lacs detected in any of the three EPIC cameras. Two different phenomenological models, with different variations of the absorbing column density, are tested: Log-Parabolic and Powerlaw. We determine the best fit model and extract its
parameters, The results of the analysis are presented as a catalogue of X-ray spectral properties of the sample in the 0.2 - 10 keV energy band as well as in the V/UV band. Multiwavelength information at radio and gamma-ray energies complete the catalogue.

Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

Affiliation

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Clasificación de la sesión: POSTER SESSION