

Subject: Abstract

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To: Chris Baughman <chris@ipac.caltech.edu>

Hello Chris,

this is the abstract of the presentation:

X-ray counts and contribution to
the XRB of an IR selected sample of
Starburst and Active Galaxies

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A sample of 837 objects, containing normal, starburst and active galaxies has been selected from the IRAS 25 micron sample (Shupe et al. 1998). Using a local luminosity function and an evolutionary model, the sample has been evolved backwards in time up to $z < 7$ (Xu et al. 1998, 2002). The final sample fits ISO and SCUBA source counts and reproduces the CIB.

Using the rest-frame IR luminosities and colors, we estimate the soft and hard X-ray luminosities, the intrinsic absorption, the observed soft and X-ray fluxes and the AGN and/or starburst contribution to the X-ray emission of each object. The total number of soft and hard X-ray sources and their contribution to the X-ray background are derived and compared with observed values. The results are used to predict the X-ray properties of the sources that will be observed by Chandra and XMM in the fields of the SIRTf Legacy Project SWIRE.