

Diffuse X-Ray Emission from M101



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NASA Technical Reports Server
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Reviews

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The total 0.45-2.0 keV luminosity of M101 is 3.1×10^{39} ergs/s, of which 2.2×10^{39} ergs/s is due to diffuse emission. Of the diffuse emission, no more than 6 can be due to unresolved point sources such as X-ray binaries, and approx. 11 is due to dwarf stars. The diffuse emission traces the spiral arms and is roughly correlated with the H alpha and FUV (far ultraviolet) emission. The radial distribution closely follows the optical profile. The bulk of the diffuse emission is characterized by a two thermal component spectrum with $kT \sim 0.20, 0.75$ keV, and the ratios of the emission measures of the two components is roughly constant as a function of both radius and surface brightness. The softer component has a sufficiently large covering factor that the bulk of the emission is likely extra-planar. We find no evidence of an extended axisymmetric X-ray halo, suggesting that any such halo has a strength much smaller than current predictions. This item ships from La Vergne, TN. Paperback.

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