Time-average Broadband Spectra of Dipping LMXB Sources Observed with INTEGRAL

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The X-ray observations have revealed that many microquasars and low-mass X-ray binaries (LMXBs) exhibit narrow absorption features identified with resonant absorption from and iron and other abundant ions. XMM-Newton observations have shown that at moderate spectral resolution, these features blend together modifying the observed 1–10 keV continuum. We present the time-averaged INTEGRAL broadband spectra of the LMXB dipping sources 4U 1916-053, 4U 1323-62, 4U 1624-49 and 4U 1746-37. We discuss the nature of the comptonizing regions in these systems. We find that the broadband spectra can be well modeled if the effects of a highly photo-ionized plasma are also included.