

The optically thick and Eddington-limited wind driven by supercritical accretion onto compact objects

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Supercritical accretion onto compact objects may drive massive winds that are nearly spherical, optically thick, and Eddington-limited. Blackbody emission from the photosphere is the direct observational signature of the wind. Here I show that such a scenario can explain the X-ray emission from the luminous and very soft sources in nearby galaxies, and their broadband spectra via an irradiation model that takes into account the presence of the optically thick wind and radiation transfer in it.

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