# High Mass X-ray Binaries with INTEGRAL

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**Abstract**

The INTErnational Gamma-Ray Astrophysics Laboratory (INTEGRAL) has transformed our understanding of high-mass X-ray binaries (HMXBs) through more than two decades of sensitive observations in the hard X-ray and soft gamma-ray bands. Its unique combination of wide field of view, regular Galactic Plane monitoring, and long-term temporal coverage has enabled the discovery and characterization of an entirely new population of accreting compact binaries, substantially reshaping the Galactic HMXB census. INTEGRAL revealed the prevalence of heavily obscured supergiant X-ray binaries, demonstrating that many systems remained hidden from previous soft X-ray surveys because of strong intrinsic absorption. Equally significant was the discovery of Supergiant Fast X-ray Transients (SFXTs), establishing a new class of HMXBs characterized by short, luminous outbursts and extreme variability. This presentation reviews the significant progress made in HMXB research over the last twenty years by INTEGRAL and other X-ray telescopes.

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