

Celebrating 20 years of Swift Discoveries



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Magnetar birth rates, evolution, and their imprint in the transient X-ray sky

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Magnetars, the most magnetized neutron stars in the universe, present a fascinating but yet enigmatic population. Their birth rates, evolutionary paths, and connection to the broader neutron star population remain open questions in astrophysics. In this talk, I will explore recent insights into magnetar formation rates, their relation to core-collapse supernovae, and their presence in transient X-ray sky. Thanks to Swift, and subsequent advent of sensitive all-sky monitors and deep X-ray observations, we are witnessing an era of unprecedented discovery in high-energy astrophysics. I will discuss how these new observations challenge traditional views on magnetar populations, and shed light on their link to other exotic extra-Galactic transients.

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