

# The 2nd PANDA Symposium on Multimessenger Astronomy - Jets and Shocks in the Universe

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## Type-I burst as probe of the XRB corona

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The type-I X-ray bursts are thermonuclear explosions on the surface of neutron stars, which can be used to probe the corona. Because of their well-known location and intensity, the seed photons from the bursts can be regarded as a shower of soft X-rays, which Comptonize with the hot plasma in the corona. The cooling of the corona has been observed in IGR 17473-2721, Aqla X-1, and 4u 1636-536. The shortage of hard X-rays, and the time lag between soft and hard X-rays can constrain the theoretical disk-corona model, namely, the detailed location and formation mechanism of the corona.

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