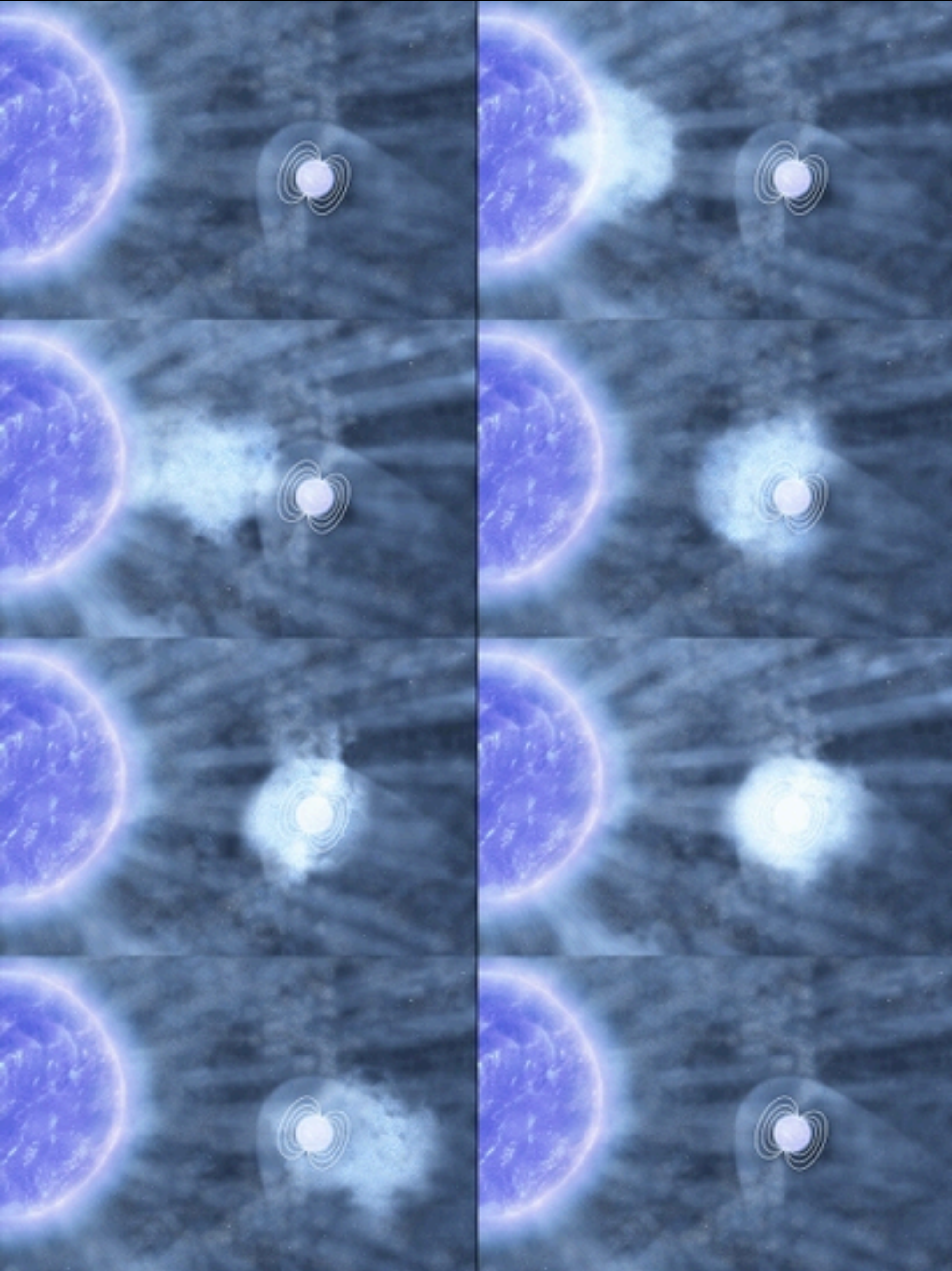


SFXT - Supergiant Fast X-ray Transient



- HMXB: compact object accretes the clumpy wind from supergiant companion
- Bright X-ray short flares: dynamic range ≥ 10 , duration ~ 1000 s
- Average luminosity $L \lesssim 10^{34} \text{ erg s}^{-1}$
- Possible models:
 - extremely clumpy winds (in't Zand 2005): clump masses $\sim 10^{21} - 10^{23} g$,
 - centrifugal or magnetic gates (Grebenev 2008; Bozzo et al. 2008):
 $B \sim 10^{12} G$, $P_{spin} \sim 10 s$ or $B \sim 10^{14} G$, $P_{spin} \gtrsim 1000 s$,
 - quasi-spherical subsonic settling accretion (Shakura et al. 2012):
 $L_X \lesssim 4 \times 10^{36} \text{ erg s}^{-1}$

Supergiant X-ray Binaries with Red Supergiant Donor (RSG SgXBs)

Wind-fed X-ray Binaries

**Galactic RSG SgXBs: Scutum X-1,
CXO 174528.79- 290942.8, 3A 1954+319**