XR B

Galactic Bulge - $d \sim 8 \text{kpc}$

$L_{\text{max}} \sim 10^{38} \text{erg/s}$

$T \sim 3 \times 10^7 \text{K}$

$R \sim 10 \text{km}$

Thermonuclear flashes on NS

Woosley & Taam 1976

Maraschi & Cavaliere
XRB observations:
Erik Kuulkers
Duncan Galloway
Remon Cornelisse
  wonderfully complicated

GS 1826 -238 textbook
  but slow, not textbook wise
Lars Bildsten

Fortunately there are S XRBs
Andrew Cummings
Norbert Schutz
Jacob Fisher
  C + heavy nuclei
  In Sn Sb Te quartet
XRB oscillations

Observations

Michael Muno
Tod Strohmayer

cmplicated pattern

Various models and geometries

Anatoly Spitkovsky
Frygiel Ozel
Dimitrios Psaltis
Coleman Miller
Greg Uzomovsky
Anthony Piro
Michael Zingale

No convincing connection except $m = 1$

Fortunately, SAX J1808.4 - 3658

Deepo Chakrabarty
$\nu = 401 \text{ Hz}$
4 bursts

$\dot{\nu} \sim 5 \text{ Hz on the rise}
\nu \text{ stable on decline, only 10% phase shift}$

magnetic pole?
Spectra

Observations
Jean Cottam

Herman Marshall
Chandra, B.B. spectra

Models

Agnieszka Majorek
not B.B.
Philip Chang
sedimentation/spallation
levitation
New physics
James Latimer
Simon De Deo
EOS
strong gravity

Henk Spruit: do not bury magnetic fields