

## XRB

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 text book

but slow, not text book wise

Lars Bildsten

Fortunately there are SXRBs

Andrew Cummings

Norbert Schutz

Jacob Fisher

) C + heavy nuclei  
In Sn Sb Te quartet

XRB oscillations  
Observations

270-619 Hz

Michael Muno  
Tod Strohmayer  
complicated pattern

$\Delta\nu \sim 5\text{ Hz}$   
phase shift  $> 2\pi$   
stable asymptotic  $\nu$   
rotation

Various models and geometries

Anatoly Spitkovsky  
Feryal Özel  
Dimitrios Psaltis  
Coleman Miller  
Greg Ushomirsky  
Anthony Piro  
Michael Zingale

no convincing connection  
except  $m=1$

Fortunately SAX  $\sim 1808.4 - 3658$   
Deepo Chakrabarty  $\nu = 401\text{ Hz}$

4 bursts

$\Delta\nu \sim 5\text{ Hz}$  on the rise  
v. stable on decline  
only 10% phase shift

magnetic pole?

## Spectra

Observations

Jean Cottam

XMM EXO0748-676  
possibly  $z = 0.35$

Herman Marshall

Chandra, B.B. spectra

## Models

Agneszha Majorova

not B.B.

Philip Chang

sedimentation/spallation  
levitation

New physics

James Latimer

EOS

Simon De Deo

strong gravity

Henk Spruit : do not bury  
magnetic fields