



ASTR/PHYS 5590: High Energy Astrophysics



Week 12

Discuss Changes to Syllabus

Only 1 Month Remaining
to complete Project!

XRBs (Ch. 13.5-6), BHs (Ch. 13.11), Accretion (Ch. 14)

Grading Allocation

Grades are determined from homework, class participation, exams, and student presentations according to the following weights:

- Homework: 40%
- Participation: 10%
- Midterm: 10%
- Project: 20%
- Final Exam: 20%

- Homework: 40%
- Participation: 10%
- Midterm: 10%
- Project: ~~20%~~ → 30%
- Final Exam: ~~20%~~ → 10%

Current

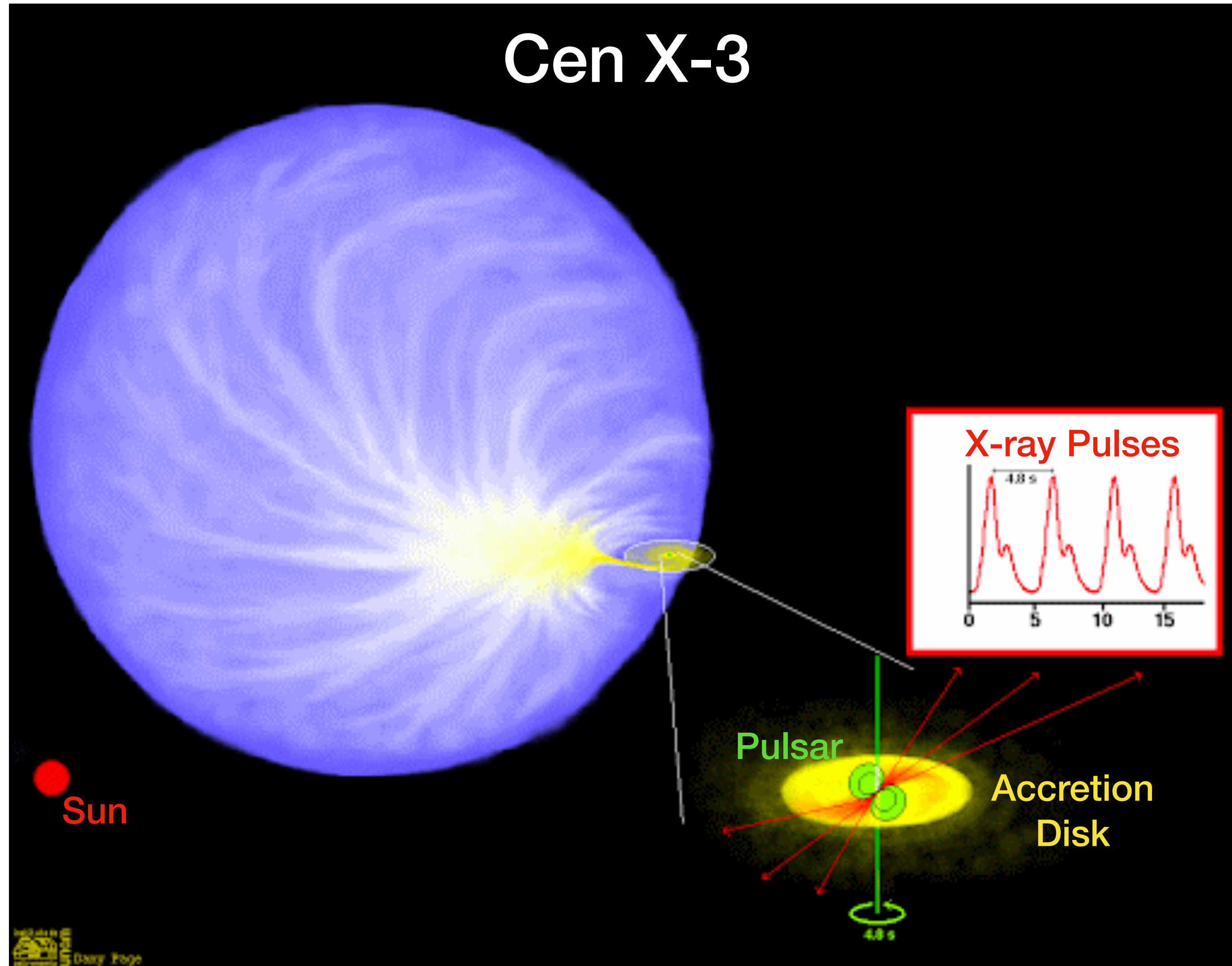
Alternative

Final Exam will be more (but not entirely) qualitative and open everything

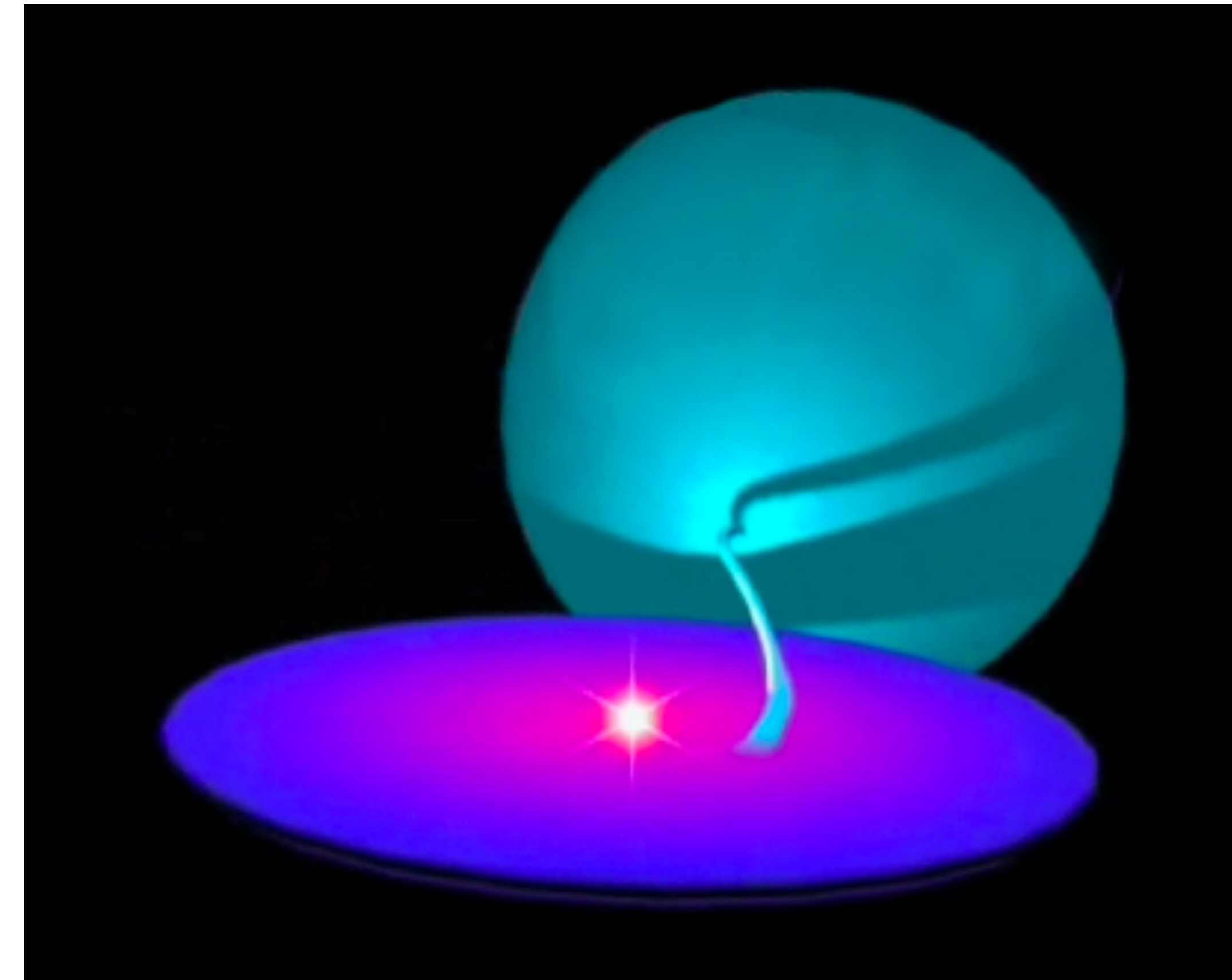
Preferences?

High Mass X-ray Binaries

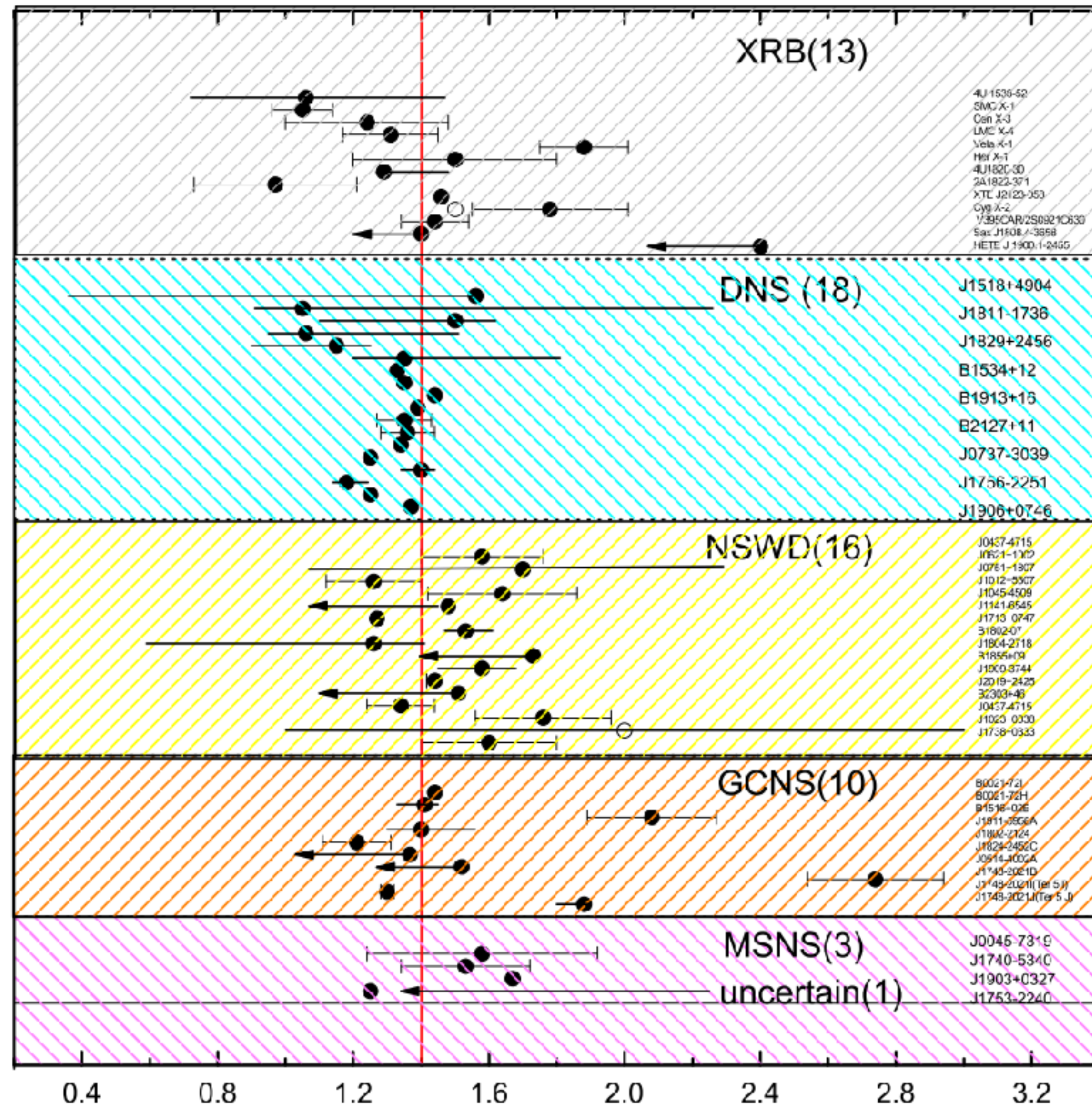
Cen X-3



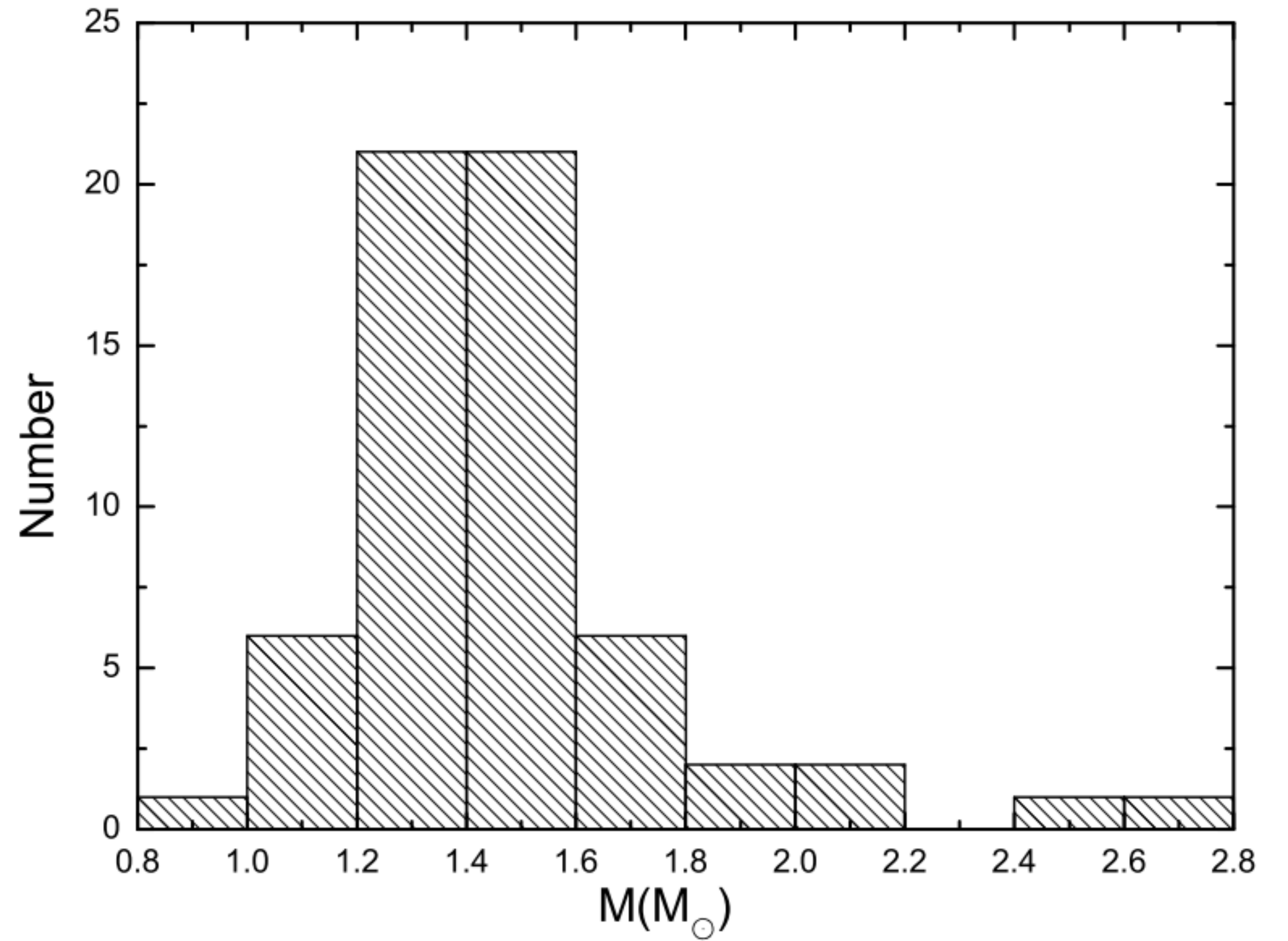
Her X-1



NS Mass Measurements



List of 61 Neutron Star Masses (M_{\odot})



Zhang et al. 2011

NS Mass Measurements

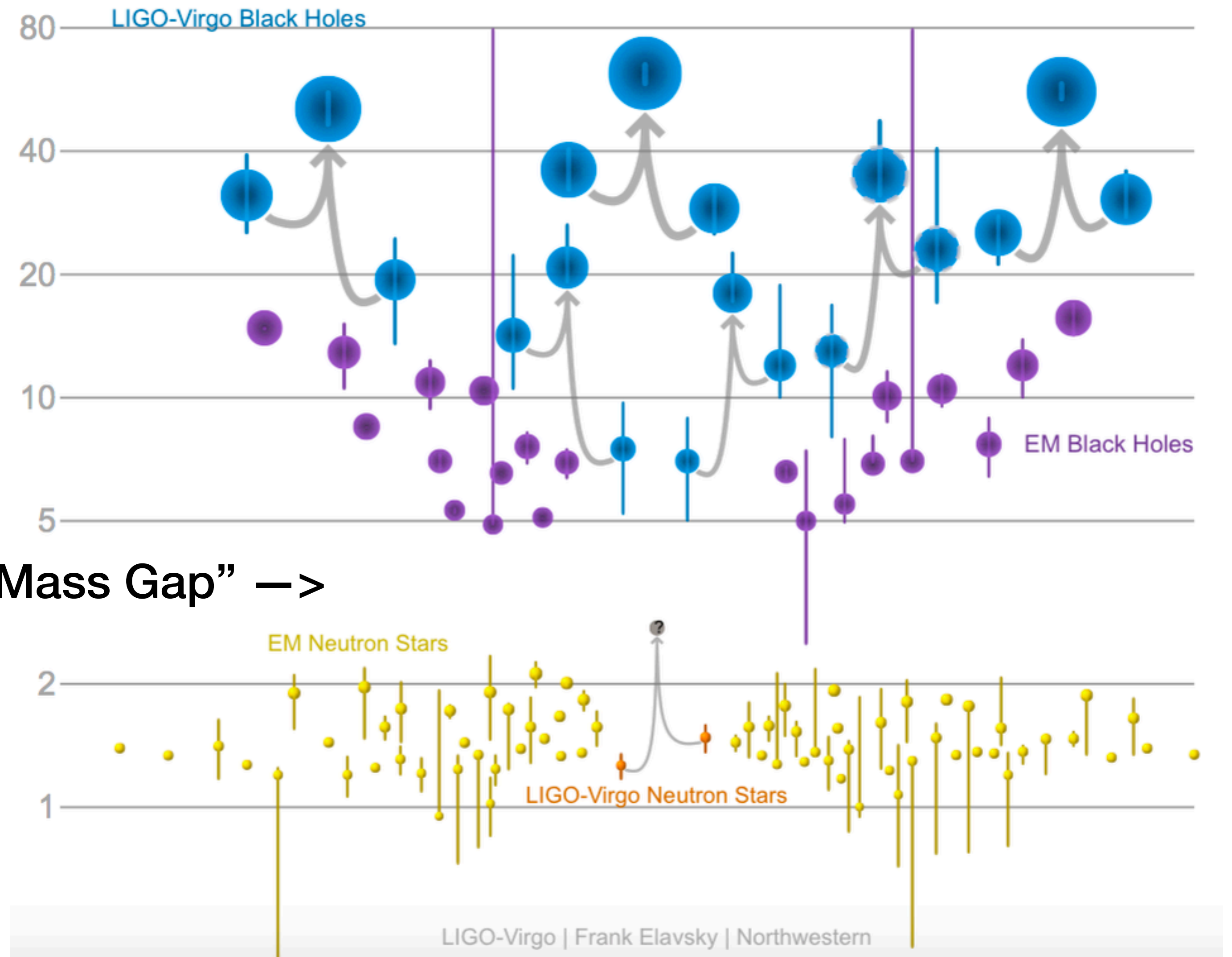
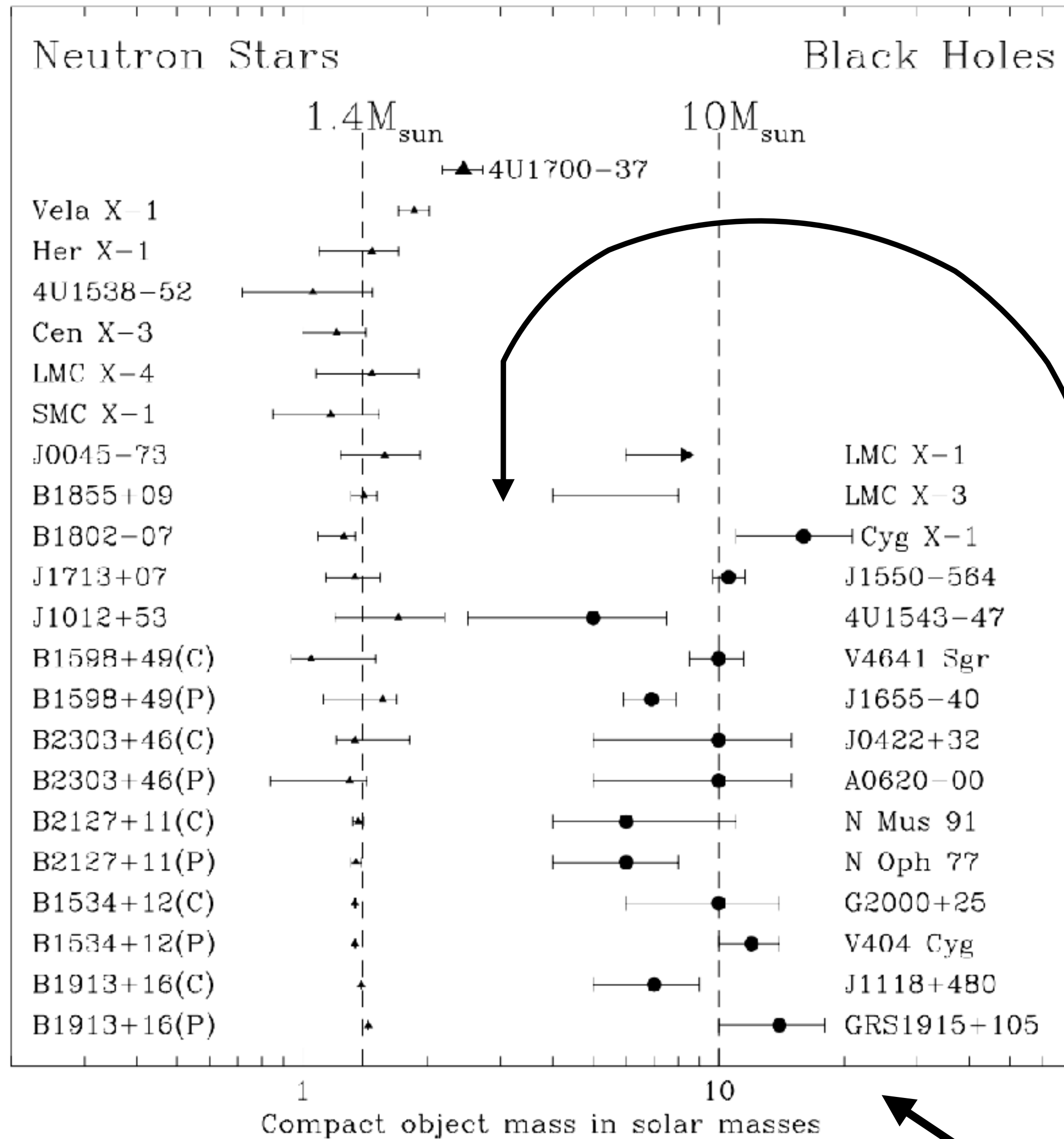
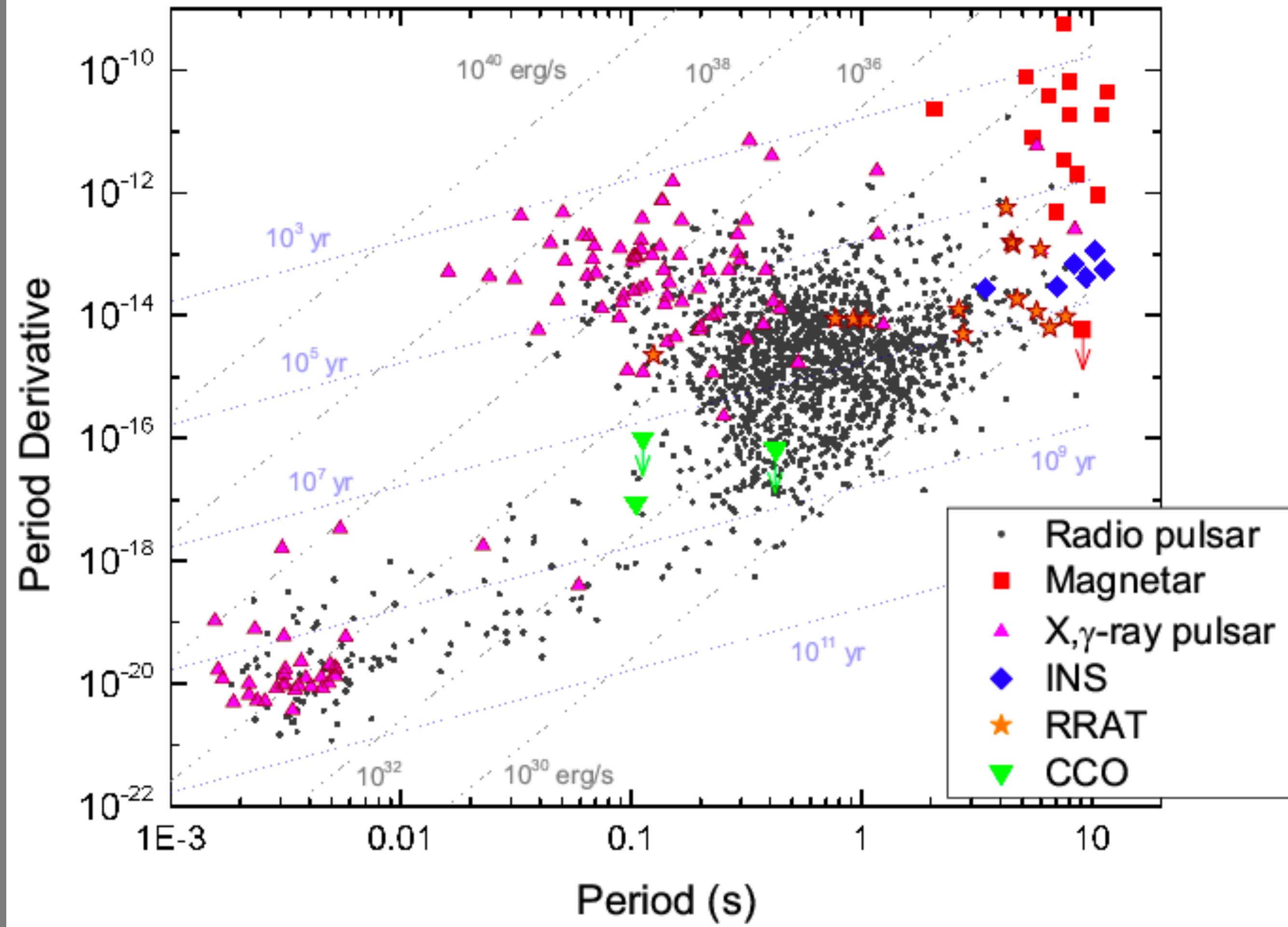
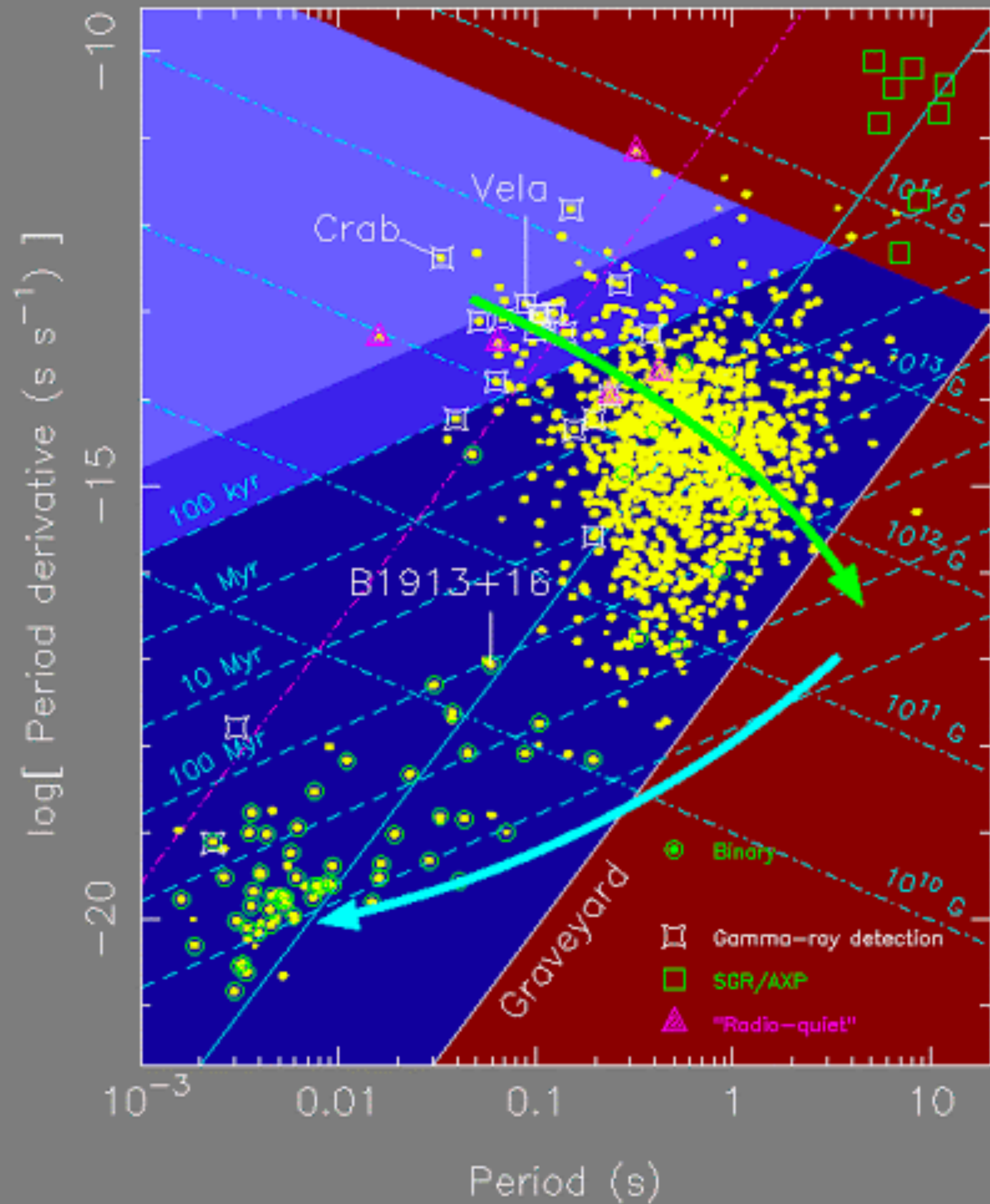
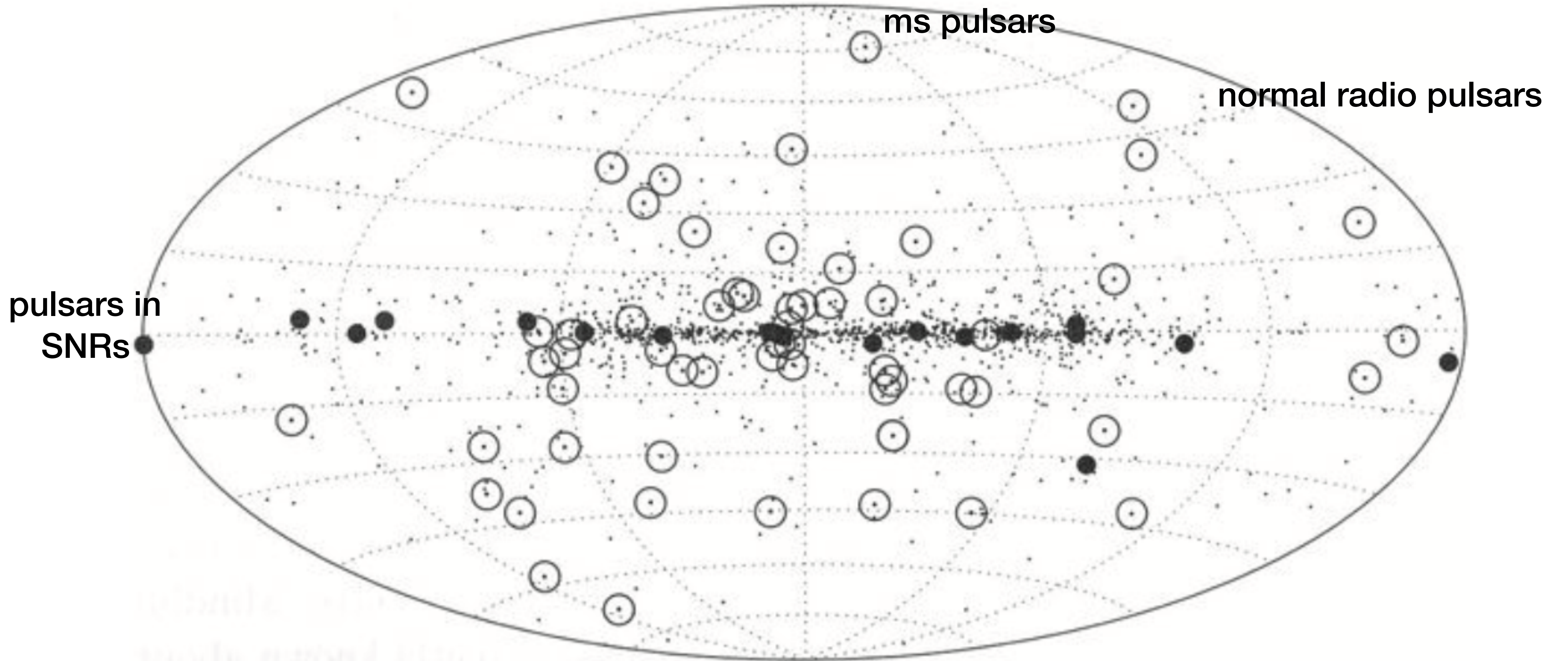


Fig. 13.18
Clark et al. 2002



Galactic Population of Pulsars



RXTE All Sky Survey (3-20 keV)

Revnivtsev M., Sazonov S., Jahoda K., Gilfanov M.

