
Astronomy 345M Pulsars and Supernovae II

Question Sheet 2

1) Starting with the diagram overleaf, draw a combined family-tree and flow diagram to show how the various types of neutron star systems described in the course form and evolve. Include in your drawing the following features and objects:

- radio pulsars
- X-ray pulsars
- millisecond pulsars
- recycled pulsars
- SGRs
- AXPs
- Magnetars
- LMXBs
- HMXBs
- RRATs
- GRBs
- ‘quiet’ neutron stars
- rotationally powered pulsars
- magnetically powered pulsars
- accretion powered pulsars
- supernova remnants
- white dwarfs
- black holes
- double neutron star systems
- double pulsar systems

