

## CHAPTER 13: Neutron Stars and Black Holes

- Type 2 Supernovae - core bounce in evolved high mass stars
  - After the bounce, a super-dense remnant remains
    - Just before the bounce, the iron atom particles (electrons and protons) in the core are crushed together
      - Neutronization
      - We're left with a ball of neutrons supported by neutron degeneracy pressure -> A neutron star!
    - Composition: Neutrons
    - Mass: 1-3  $M_{\text{sun}}$
    - Radius: 10 km (6 miles)
    - Density:  $10^{11} \text{ kg/cm}^3$
- Neutron stars spin very rapidly because:
  - Angular momentum,  $L$ , is conserved
    - Mass stays the same
    - Before collapse, stars rotate once per 25 days
    - Neutron stars rotate in less than a second
- Neutron stars have very strong magnetic fields because:
  - Contracting stars carry their magnetic fields with them
  - The field intensifies with the contraction so compact objects (like neutron stars) often have strong magnetic fields
- The combination of these characteristics leads to a phenomenon called: PULSARS
  - The first PULSAR was discovered in 1967 by Jocelyn Bell, who measured this radio signal from an unresolved source... in 1974 her advisor Anthony Hewish won the nobel prize in physics for explaining it:
    - 1: Strong magnetic fields lead to hot spots at the magnetic poles
    - 2: Accelerated particles at hot spots emit beamed radiation
    - 3: If the rotation axis DOES NOT equal the magnetic field axis, then this "searchlight" rotates
    - 4: The rotating searchlight is like a lighthouse, which we see as a Pulsar if we happen to lie in the searchlight beam
    - Not all neutron stars will be observed by us as Pulsars, because the searchlight might not intercept Earth
  - The pulse period gives the rotation period of the neutron star
  - Typical periods are .03 to 1 second, or 1-30 rotations per second

$$L_{\text{before}} = L_{\text{after}}$$

$$mVr = mVr$$



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