

$$R \lesssim (\hbar/m_e c) \sqrt{\hbar c / G m_B^2}$$

General Information

- **Hours:** 1:30 – 2:30 PM on Friday, P&A 1131.
- **Main textbook:** Black Holes, White Dwarfs and Neutron Stars: The Physics of Compact Objects (Wiley, ISBN 978-0-471-87316-7).
- **Format:** 20 minutes of presentation + 30 minutes of discussion

Preliminary schedule

WEEK	DATE	TOPIC	PRESENTER
1	1/24	Organization meeting	Duan
2	1/31	Chap 1. Star deaths and the formation of compact objects (16p)	Duan
3	2/7	Chap 2. Cold equation of state below neutron drip (38p)	Abbar
4	2/14	Chap 2. Cold equation of state below neutron drip (38p)	Abbar
5	2/21	Chap 3. White dwarfs (27p)	Allahverdi
6	2/28	Chap 3. White dwarfs (27p)	Allahverdi
7	3/7	Chap 4. Cooling of white dwarfs (16p)	Chase
8	3/14	Chap 8. Cold equation of state above neutron drip (53p)	Osinski
9	3/21	SPRING BREAK	
10	3/28	Chap 8. Cold equation of state above neutron drip (53p)	Osinski
11	4/4	Chap 9. Neutron star models: masses and radii (26p)	Ma
12	4/11	Chap 9. Neutron star models: masses and radii (26p)	Ma
13	4/18	Chap 11. Cooling of neutron stars (29p)	Chase
14	4/25	Chap 11. Cooling of neutron stars (29p)	Chase
15	5/2	Chap 18. Stellar collapse and supernova explosions (31p)	Shalgar
16	5/9	Chap 18. Stellar collapse and supernova explosions (31p)	Shalgar