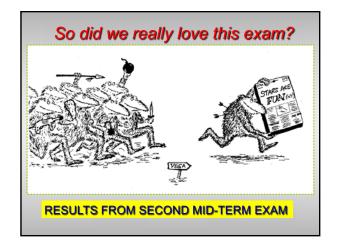
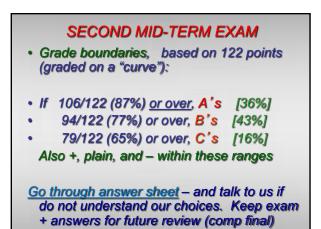
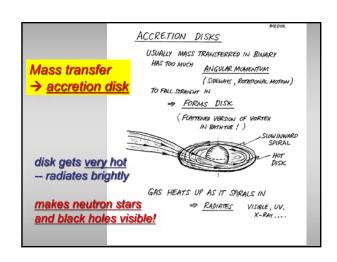


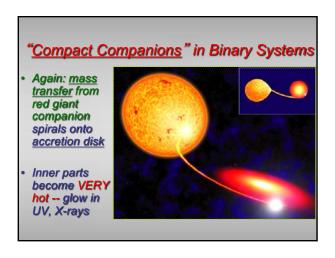
Joys of Black Holes

- Black holes, their general properties, and their "care and feeding" – and Mr. Einstein's work S.2 (special relativity), S.3 (general relativity)
- How to detect black holes (indirectly) in close binary systems (read 18.3)
- Best "stellar-mass" black hole candidates: Cygnus X-1, SS433
- · Gamma-ray bursts (hypernova?)
- Our Milky Way Galaxy in overview, aspects of any spiral galaxy – and a fine SONG
- Overview read Chap 19 "Our Galaxy"
- Observatory session tonight



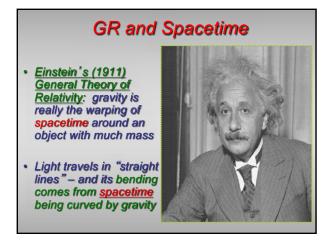


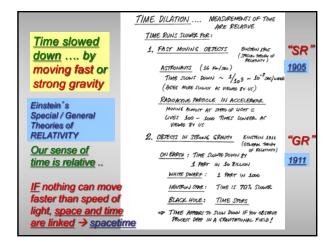


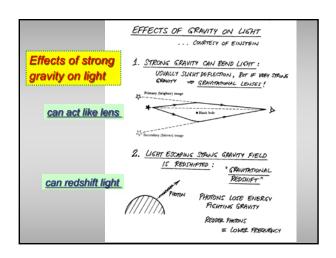


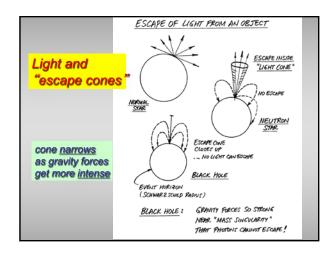
Reading ahead Clicker - Black Holes

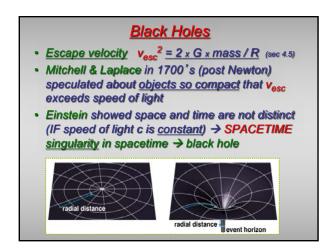
- What do we mean by the event horizon of a black hole?
- A. The distance from black hole at which stable orbits are possible
- B. The very center of the black hole
- C. The sphere inward from which neither light nor anything else can escape
- D. The place where x-rays are emitted

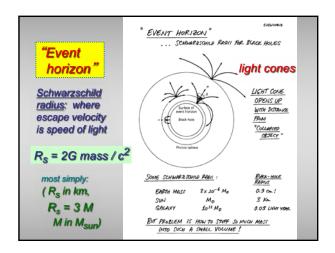


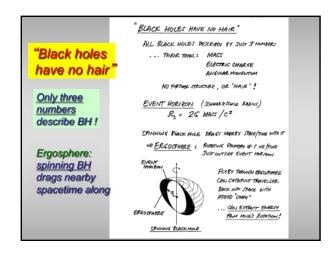


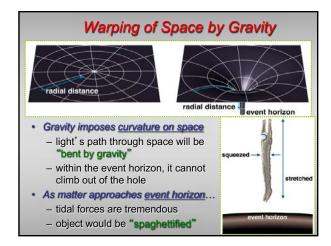




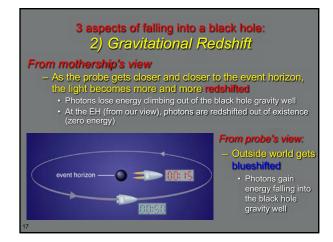


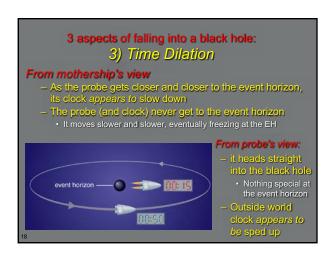


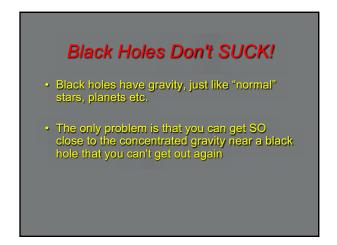


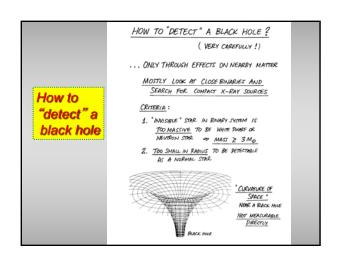


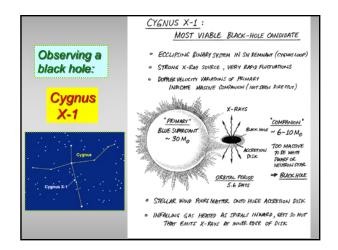


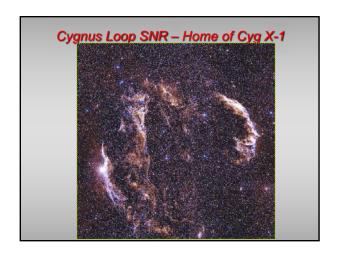


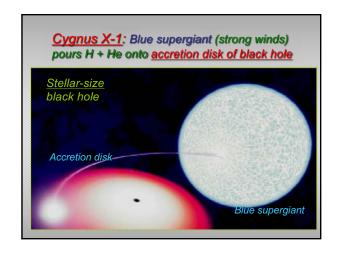




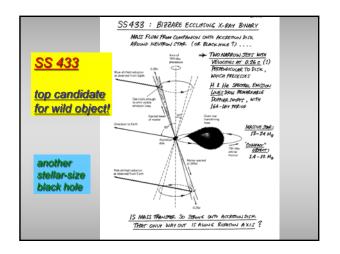


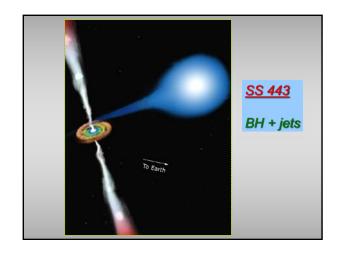


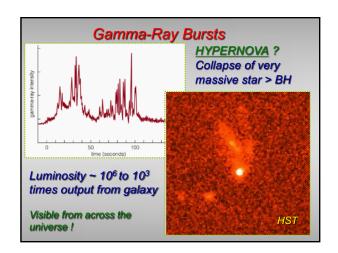












Clicker Poll of Advice How do you take notes (or listen) during lectures? A. I get most of it by just listening B. I write down some notes, then go back to book to look things up C. I listen, take some notes, then get copies of lecture slides from course website D. I enjoy talking with my buddies, and they tell

· E. I try to read the subject in advance, and then

me later if I missed anything

listen, taking some notes in class

