







## How we will be <u>zoom-interactive</u> "<u>Raise Hand</u>" (Max monitors "Participants")

- "Send Chat" Message (Max will act)
- In both cases, Juri will get to your question or comment within at most a few minutes
- Or if pressing, <u>Unmute your mike</u> and ask question
- We can adjust "how to interact", with your advice and experience















## Questions or Comments

Then we use <u>Break-out Rooms</u> for ~7 minutes to exchange impressions of "how are things"



### "Compact Companions" in Binary Systems

Again: <u>mass</u> <u>transfer</u> from red giant companion spirals onto accretion disk

 Inner parts become VERY hot -- glow in UV, X-rays

# Reading ahead – 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

## **GR and Spacetime**

- Einstein's (1911) <u>General Theory of</u> <u>Relativity</u>: gravity is really the warping of spacetime around an object with much mass
- Light travels in "straight lines" – and its bending comes from <u>spacetime</u> being curved by gravity













