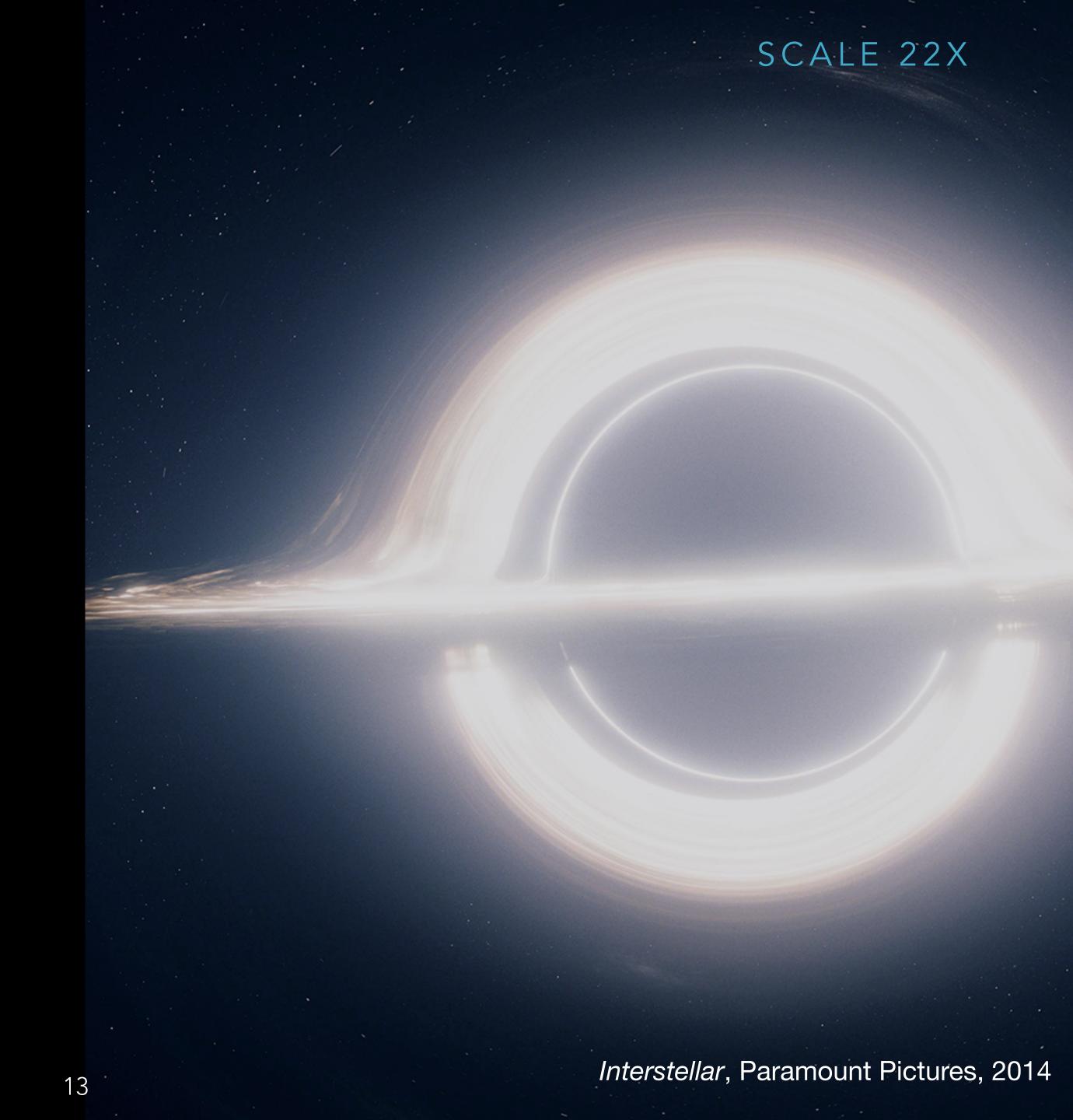
BLACK HOLES

- Quintessential prediction of GR
- Space is dragged inward faster than light
- Stable bubbles of pure gravity, surrounded by one-way "event horizons"
- Even Einstein thought they were a mathematical step too far



BLACK HOLES NUMERICAL RELATIVITY

- Oscillation Non-linear dynamics require numerical methods
- Formation Open conjectures about formation requirements, possible properties
- Accretion Astrophysics of BH environments
- Binary black hole mergers Major gravitational wave source