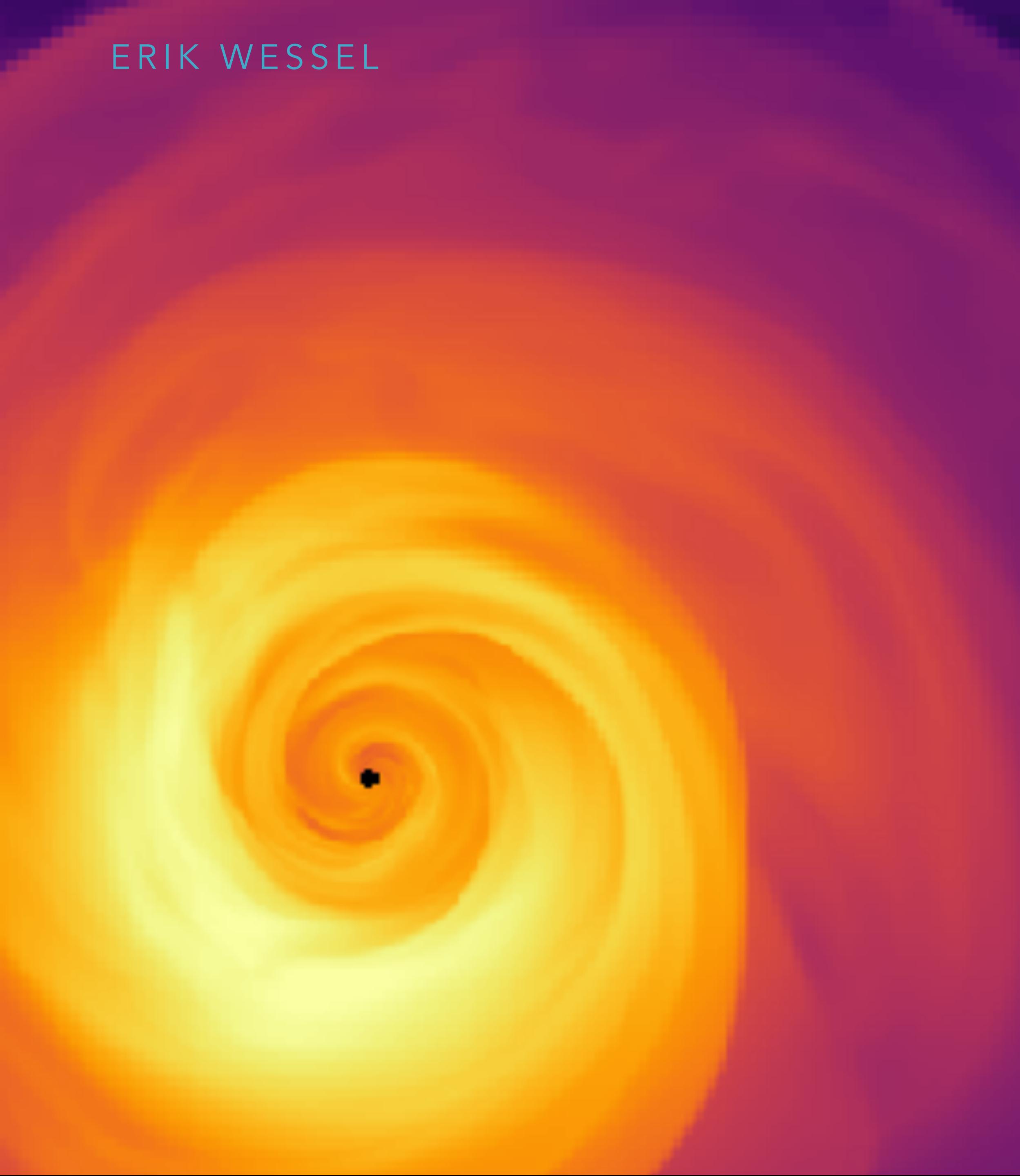


BLACK HOLES

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



NEUTRON STARS

- Left-over cores of massive, exploded stars
- Mass of several suns, radius of just over 10km
- Extremely dense degenerate nuclear matter
(topic of active research)
- Spinning neutron stars, pulsars, most accurate clocks in the universe

