

Lecture 21 — GR and Black Holes

Einstein's General Theory of Relativity (1916)

- ▶ Special Relativity says nothing about forces
- ▶ General Theory: Theory of Gravity
- ▶ Gravity changes the geometry of spacetime
- ▶ Bodies follow straight lines in the curved geometry
- ▶ Theory gets orbit of Mercury Right
- ▶ Bending of starlight
Confirmed by expedition led by Eddington to island of Príncipe near Africa to watch the solar eclipse of May 29, 1919.

GR: Gravity warps spacetime

