Last lecture(s)

- Relativistic momentum $p=\gamma(v)mv$
- Relativistic Force $Fx=dp/dt = \gamma^3(v)ma$
- Relativistic Kinetic Energy $K= \int F dx$

  $K= (\gamma-1)mc^2 \rightarrow mv^2/2$ as $v/c \rightarrow 0$

  $= \gamma mc^2 - mc^2$

This lecture

- $K+ mc^2 = \gamma\, mc^2 = E$
- Rest mass energy
- Particle creation!
- Relativistic kinematics