

Physics I

2017-10-05

Agenda — omg Static friction.

$F_{\text{static}} \neq \mu N$

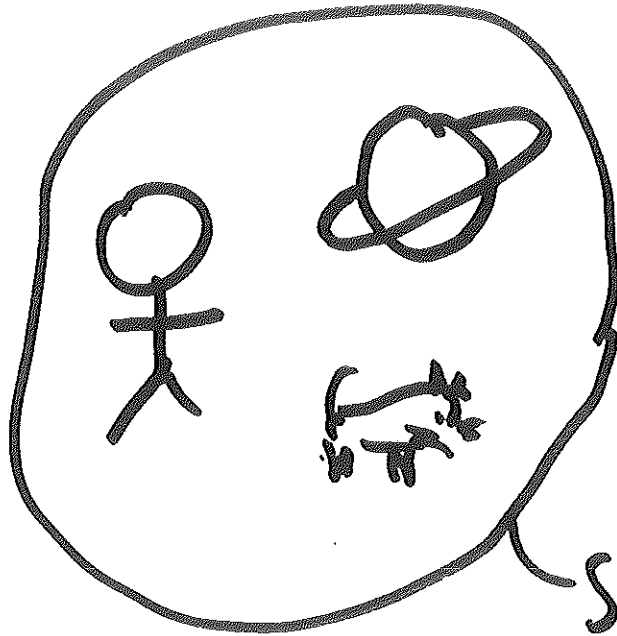
- Questions.
- Conservation laws?
- Term Exam 2
- $C \equiv C$ 8.7 eV!

Energy	<u>Scalar</u>	time translation	—	$\vec{F} \cdot \vec{x}$ work
Momentum	<u>vector</u>	Spatial translation	—	Force, $\vec{F} \cdot t$ impulse
angular momentum	<u>pseudo-vector</u>	rotation	—	Torque $\vec{F} \times \vec{r} \cdot t$ angular impulse

Noether

(n)
before

\vec{v}_e
e⁻
(p) →



System
boundary

$$\frac{dE}{dt} \Big|_{\text{inside}} + \frac{dE}{dt} \Big|_{\text{through}} = 0$$