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(2.8) I.2.4 Equivalence principle of Einstein Consider the simplest possible case of an accelerated frame: MH  $\vec{\omega} = 0$ ,  $\vec{\omega} = 0$ ,  $\vec{R}_0 \neq 0$   $\vec{R}_0 = \vec{a}$  = (a, 0, 0)  $\vec{(I)}$   $\vec{R}_0$ a(s) a m K-H 6.2 Newton's egn becomes:  $m \frac{d^2 \vec{r}}{dt^2} = \vec{F} - m\vec{a} = \vec{F} - m\vec{R}_0$ Now look at the case of a free particle, i.e., no real forces  $\vec{F} = 0$ :  $m \frac{d^2 \vec{r}}{dt^2} = -m \vec{a} = -m \vec{R}_0$ Compare this to gravity at the surface of a planet, Where a real gravitational force acts:  $\vec{F} = m\vec{g}$ Due to the equivalence of inertial and gravitational mass the fictitious force due to constant acceleration acts like a uniform gravitational field. Acceleration of S to the right (=> uniform gravitational field to the left Illustration: 2 closed railroad cars (no windows). (A) is stationary (or moves with constant speed) B) is accelerated with a. Both experience granity.

Use a pendulum to measure (i) equilibrium orientation T gravity B geff = g - a (ii) period of oscillation 10 →a (acceleration) S (ii) A pendulum of equal length L has a shorter period in S: 11/11/ (i) For (5) the pendulum is in equilibrium at  $\tan \vartheta = \frac{\alpha}{g}$ w.r.t. vertical  $T = 2\pi \sqrt{\frac{L}{g_{eff}}} = 2\pi \sqrt{\frac{L}{\sqrt{g^2 + a^2}}}$ 

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