

g → campo: $\frac{F}{m} \rightarrow 9.8 \frac{N}{kg}$
 → accelerazione $9.8 \frac{m}{s^2} = 9.8 \frac{m/s}{s}$

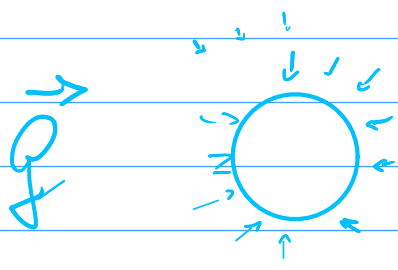
1 s → $9.8 \frac{m}{s} \approx 10 \frac{m}{s}$
 2 s → $\approx 20 \frac{m}{s}$
 3 s → $\approx 30 \frac{m}{s}$

$g = \dots \frac{km/h}{s} \rightarrow \approx 35 \frac{km/h}{s}$

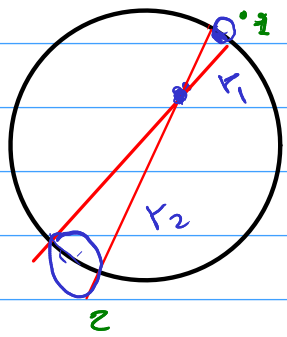
Campo vettoriale vs campo scalare

mappe dei venti

mappe pressione
temperatura

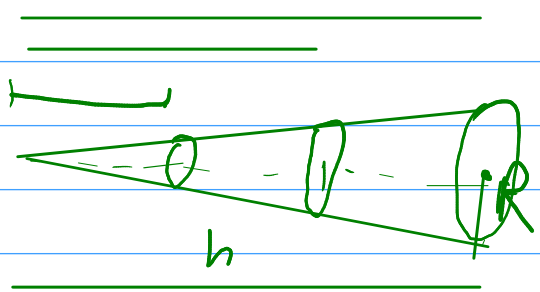


sfera
→ polin
mappatura



→ modello a cipolle
→ gusci concentrici

$S \propto R^2 \propto h^2$
 $F^{(1)} \propto \frac{m^{(1)}}{r_1^2}$

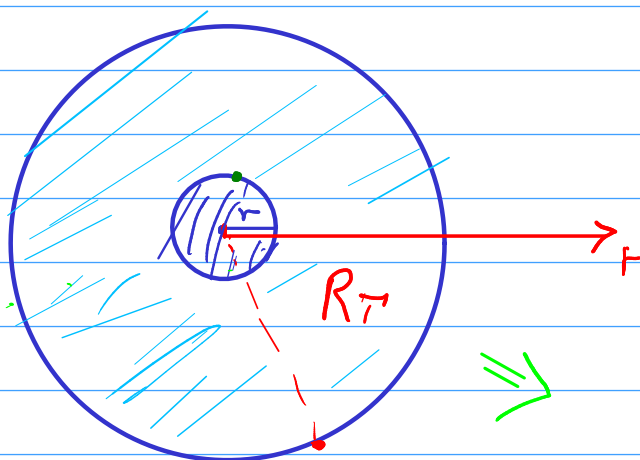


$f \propto \frac{R}{h}$
 $R \propto h$

$$F \propto \frac{m_{\text{colonna}}}{r^2} \leftarrow \text{punta-cella!}$$

$$\propto \rho_{\text{superf}} \cdot \frac{S}{r^2} \propto \rho_{\text{sup}} \cdot \frac{r^2}{r^2} \quad \triangleright$$

⇒ un punto materiale
dentro un guscio sferico di
densità sup. omogenea non risente
di forze???



$$F = - \frac{G m(r) \cdot m_0}{r^2}$$

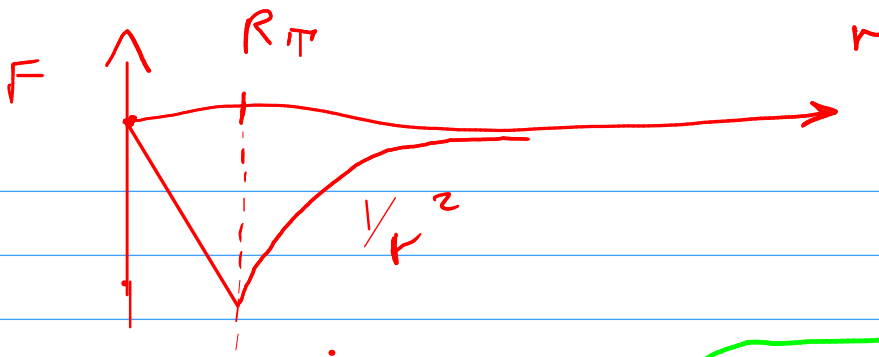
$$\propto - \frac{\rho(r) V(r)}{r^2}$$

$$\propto - \frac{r^3}{r^2} = -r$$

$$F(r) = -r \cdot m_0$$

$$F(r=R_T) = -m_0 \cdot g$$

$$F(r) = -g \cdot r \cdot m_0$$



$\underline{\underline{se}} \quad \underline{\underline{e(r)}} \quad \rightarrow \quad \boxed{F(r) \approx -e(r) \cdot r \cdot m_0}$