

GRAVITATION

Gravitational force:

- Every matter attracts every other matter.
- Central force
- Conservative force
- Long range force
- Quant depend on medium.

$$\vec{F}_{12} = -\vec{F}_{21} = \frac{G M_1 M_2}{r^2}$$

Newton's law of Gravitation


- only valid for point mass and spherical mass system.

G → Gravitational constant
 $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

Superposition theorem

- Force bet^o 2 object doesn't depend on presence of other object.

$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$



$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$

at $x=0$

$$= \frac{Gmm_1}{(1)^2} + \frac{Gmm_2}{(2)^2} + \frac{Gmm_3}{(3)^2} + \dots$$

G.P. series

$$\frac{a}{1-r} = \frac{Gm^2}{1-\frac{1}{4}} = \frac{4}{3} Gm^2$$

Hollow sphere



$$F = \frac{G M m}{(R+r)^2}$$

$F_{\text{inside}} = 0$

Solid sphere



$$F = \frac{G M m}{r^2}$$

$$\rho = \frac{M}{\frac{4}{3}\pi R^3}$$

$$M' = \rho V$$

$$M' = \frac{M r^3}{R^3}$$

$$F = \frac{G M' m}{r^2} = \frac{G M m r^3}{R^3 r^2}$$

$$F_{\text{at } r} = \frac{G M m r}{R^3} \quad F_{\text{surface } R^2} = \frac{G M m}{R^2}$$



$$F_{\text{net}} = 0$$

$$\alpha = \frac{d}{\sqrt{R^2 - 1}}$$




$$F = \frac{G M m}{d(d+L)}$$

Gravitational field intensity (Grav. force on unit mass)

$$\vec{I} = \lim_{m \rightarrow 0} \frac{\vec{F}}{m}$$

m_0 → test mass


(i) due to point mass



$$I = \frac{F}{m_0} \Rightarrow I = -\frac{GM}{r^2}$$

$I \propto \frac{1}{r^2}$

(ii) due to hollow sphere




$$I_{\text{outside}} = -\frac{GM}{r^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = 0$$

$I \propto \frac{1}{r^2}$

(iii) Solid sphere




$$I_{\text{outside}} = -\frac{GM}{r^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = -\frac{GM r}{R^3}$$

$I \propto \frac{1}{r^2}$

(iv) Axis of ring



$$I = \frac{G M m}{(R^2 + x^2)^{3/2}}$$

$\alpha \ll R$

$$I = \frac{G M \alpha}{R^3}$$

$\alpha \gg R$

$$I = \frac{G M}{\alpha^2}$$

$\alpha = R/2$

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non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory

Learning Disabilities Phakkharawat Sittiprapaporn, 2012-03-14 Learning disability is a classification that includes several disorders in which a person has difficulty learning in a typical manner Depending on the type and severity of the disability interventions may be used to help the individual learn strategies that will foster future success Some interventions can be quite simplistic while others are intricate and complex This book deserves a wide audience it will be beneficial not only for teachers and parents struggling with attachment or behavior issues but it will also benefit health care professionals and therapists working directly with special needs such as sensory integration dysfunction

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