

Physical World

Force	Relative Strength
Strong Nuclear	1
Electromagnetic	10^{-2}
Weak Nuclear	10^{-13}
Gravitational	10^{-39}

Units and Measurement

1. Magnitude = nu [n = numerical value]
[u = unit]
 $n \propto \frac{1}{u}$

2. Plane angle $\theta = \frac{L}{R}$
 Unit = Radian

3. Solid angle (Ω) = $\frac{A}{R^2}$

4. Least count order

1. Metre scale - 10^{-3}
2. Vernier scale - 10^{-4}
3. Screw Gauge - 10^{-5}

5. Least count of Vernier scale

$$L.C. = 1 \text{ MSD} - 1 \text{ V.S.D}$$

- Procedure

$$360^\circ = 2\pi \text{ Radian}$$

$$180^\circ = \pi$$

$$90^\circ = \frac{\pi}{2}$$

$$45^\circ = \frac{\pi}{4}$$

$$60^\circ = \frac{\pi}{3}$$

$$30^\circ = \frac{\pi}{6}$$

$$120^\circ = \frac{2\pi}{3}$$

$$270^\circ = \frac{3\pi}{2}$$

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