

# MAGNETISM & MATTER

## BAR MAGNET

Iron filings on glass  
bar magnet  
poles -南北



→ Poles are due to the charge of electric dipole

Poles - North pole (+) & South pole (-)  
for suspension, poles point towards geographic north & south pole

Like poles - repel  
unlike poles - attract  
poles never separated - monopole & duality

## MAGNETIC FIELD LINES

Imaginary curve. Length is any power of direction of magnetic field at that point

MFL of bar magnet  
Conductor carrying current I, close loop current  $\oint$

Electric field lines - open loop  $\oint$

Outside magnet - Field lines direction inside - S  $\rightarrow$  N  
Field lines never intersect each other.  
at point of intersection, a magnetic balance

two medium - directions of magnetic field at same point  
which is not possible

B no of lines  
area  $\rightarrow$  field lines  
stronger the field

$B_1 > B_2$

MFL come out & go into magnetic matter at any angle  
Electric field lines conducting current in normal direction

$B_1 > B_2$

uniform magnetic field  
non-uniform magnetic field

POLE STRENGTH

just like electric charges, a magnetic charge (also like pole strengths)  
N  $\rightarrow$  North Pole S  $\rightarrow$  South pole

$m_N = +m$

$m_S = -m$   
M = m [following electrical analogy]  
i.e. m charge = pole s.

Unit pole strength (magnetic charge) = Ampere-metre  
M = m  
m = magnetic moment

Magnetic monopole & Duality  
magnetic field lines - continuous & form closed loops  
In contrast, electric field lines begin on the charge & terminate on the other charge

## MAGNETIC DIPOLE MOMENT OF BAR MAGNET

Equal to pair of any 2 pole strengths & separation b/w 2 poles

$M = m_N$  [calculated from 2 poles]

current due two poles  
direction - N to S

OPSES :

$m_N = m_S$

total area  
magnetic moment

$m_N = m_S$

$m_N = m_S$

$m_N = m_S$

[dipole moment]  $\propto$  [ole of bar magnet]

$M = \sqrt{(m_N^2)(m_S^2)}$

$m_N = \frac{M}{2}$

$m_S = \frac{M}{2}$

$m_N = \frac{M}{2}$

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