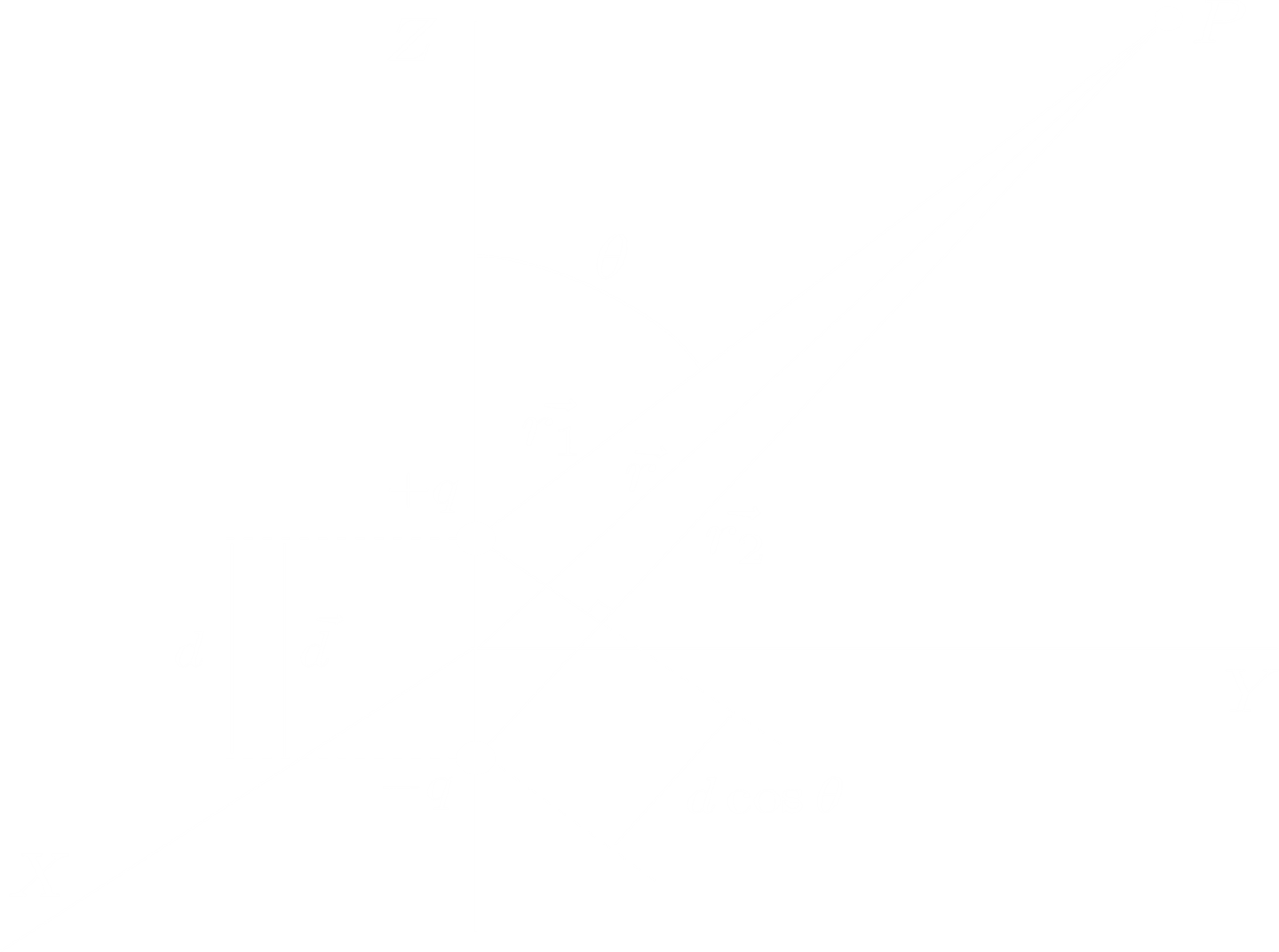
**Electric Dipole**

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Dipole moment, from positive to negative.

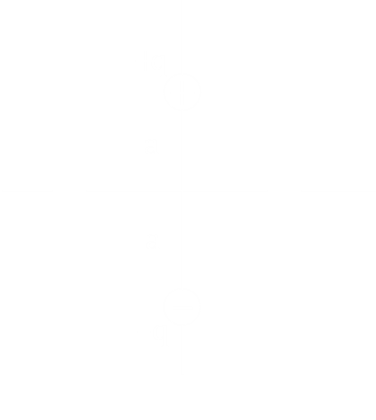
at

( sign since potential is negative for one of the charges)

If is far enough away,

If , is maximum

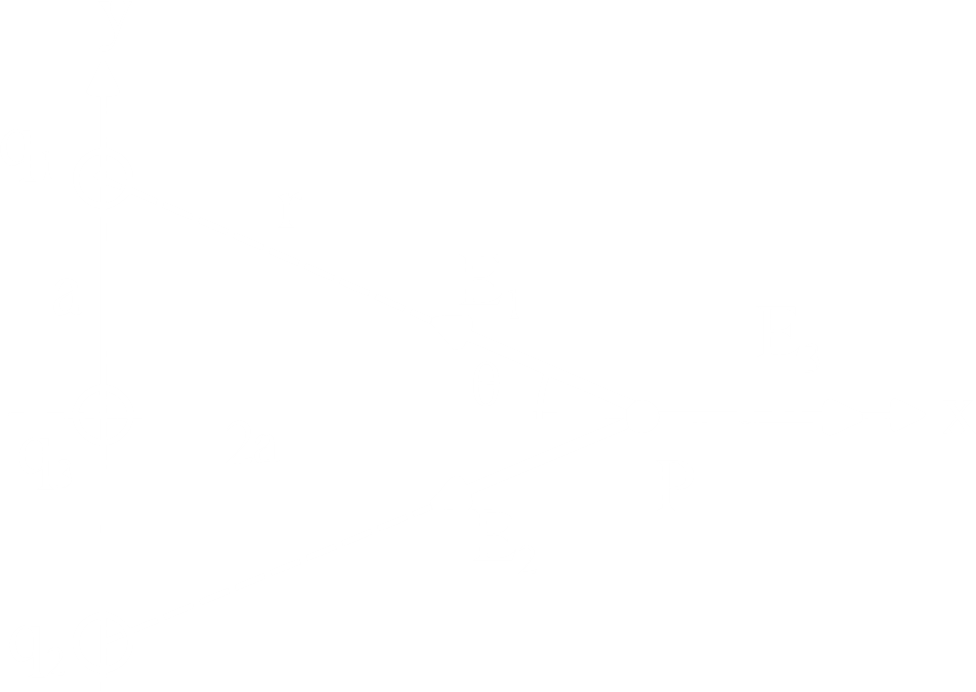
If ,



It is an assembly of positive and negative charges. Electric field lines point from positive to negative, whereas dipole moment points from negative to positive.

dipole moment,

## Calculating Electric Field



Resultant ()

( is very small)

Electric field due to point charge drops slower than the electric field due to the dipole.

## Gauss’s Law of Electrostatics

Electric Flux:

Magnetic Flux: