Date-12/04/2021 BPT-401 Dielectrics > non-polar Ferro de etic and Para dectric Polarization $\vec{p} = \xi_{o}(\xi_{o} - 1)\vec{E}$

where $\vec{E} = \vec{E}_0 + \vec{E}'$ Field the to polarisation charge

Now,
$$\dot{E} = \frac{E_0}{E_0}$$

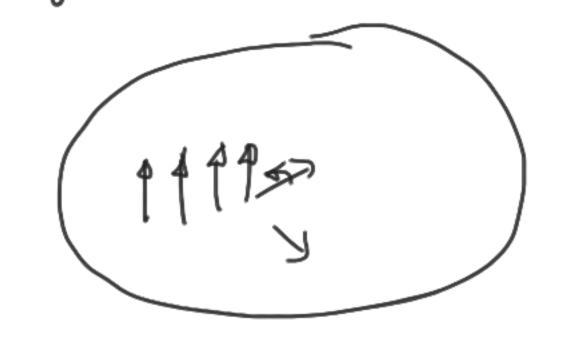
 \dot{P} \dot{R} \dot{E} \dot

Now, it Eo = 0 , then E = 0

But Eint = P
320

Ferre Deetric Dielectrics

This analogous to Ferromagnetism (E = 0)



Spontaneous polonisation

Er >>1 and 2e71 Examples Rochelle Salt, BaTiO3, SrTiO3, KNbO3 Para electric material : but smaller value than Ferro electric meterials Er and Xe one the Exception, vacuum &==1 Dia-electric does not emist

for Ferro electric Hysteresis losp 1 Carrie temperature (Tc) Below a certain tempr. the spontantions polarisations enist

T7Tc, Para electric behe vior Ferro electric non-polar Ferroelumic =D W spontaneous polanisation - Pan eledric -Thernal agitation

Modern Physics Wave-Particle duality: In densiced physiu > Particle (separate) physical reality has its not in microscopic world moning électron un wave as well as
particle manitestion special relativity and wave particle audity
is central to understanding of modern physics