Univerzitet u Banjoj Luci Elektrotehnički fakultet Osnovi elektrotehnike 1

### Vektor jačine električnog polja

Predavanje: 2. blok

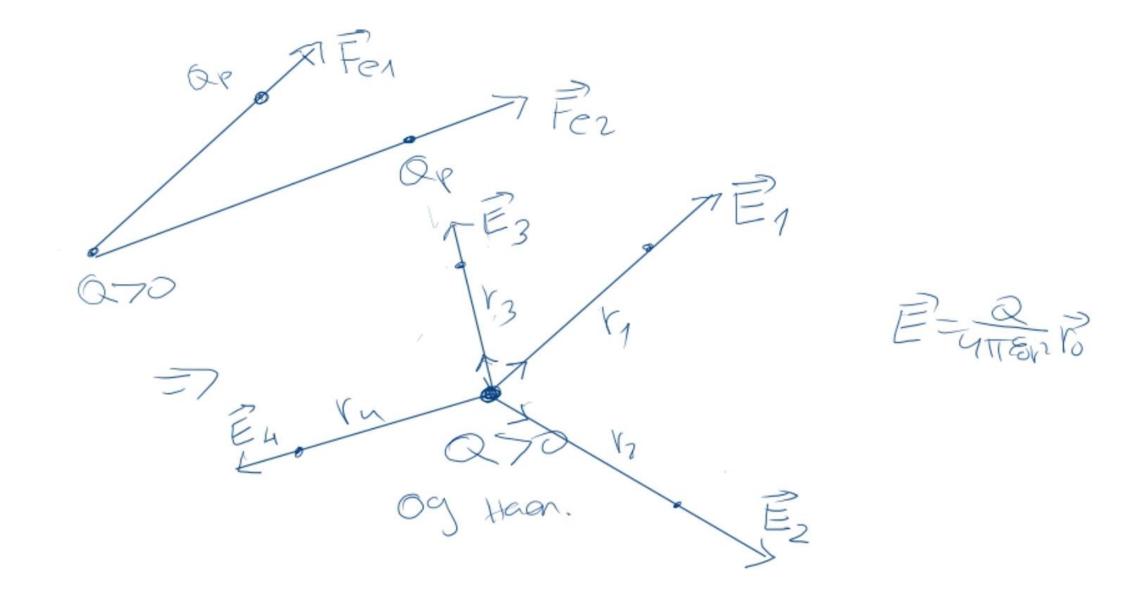
### BEKTOP JAMMINE ENEKTPINMHOT NOWA

E

desputare ce apero en cune

Malo i po dimenzijama i po naelektrisanju tj. da ne mijenja raspodjelu naelektrisanja na tijelu Q

E = Fe [N] home as mempy AED. OSPASALY E' utoex ocurr Hagneriu penu je: For Johano asce

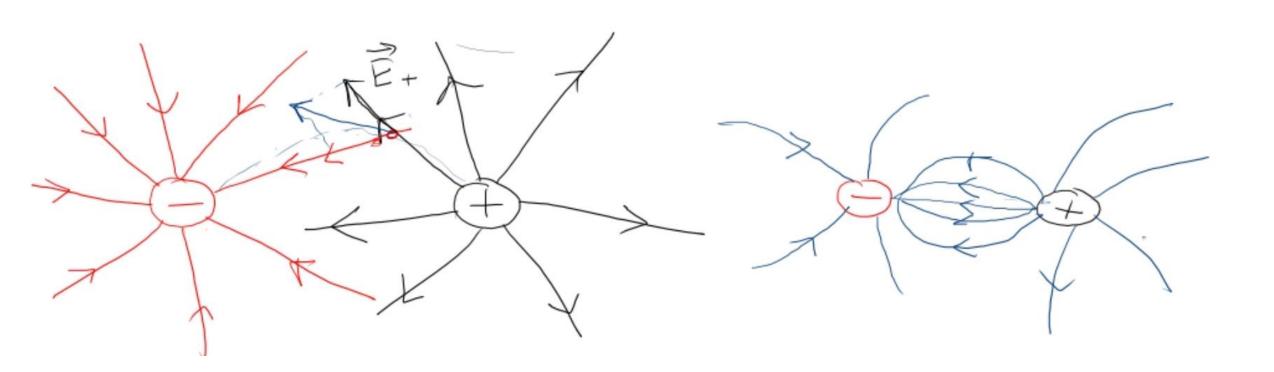


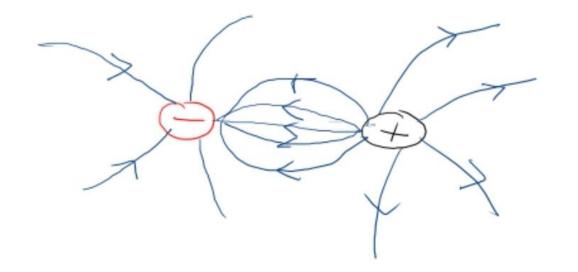
30 QLO => Em 18 ming agapones agepre V FROM Y gerewar MV/m

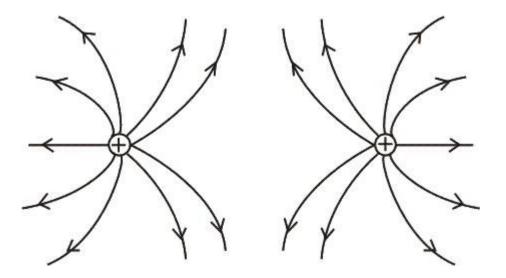
# KNHWE BEKTORA JAMNHE EN. NOBA ACUHINA NOW

Linije vektora E definišu se kao zamišljene krive linije na koje je vektor **E** tangetan.

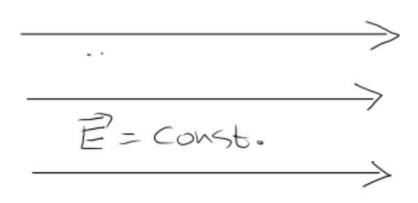
Muting lexuapa jonuse en assa gla divorca mouramena

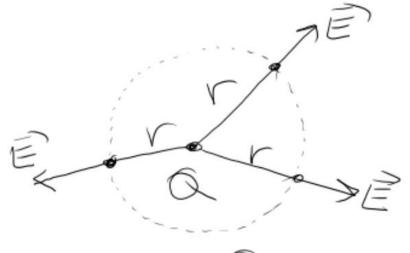






## - Xanotero en area E = Const. ) cumo nunco osaneme Xanotera en area



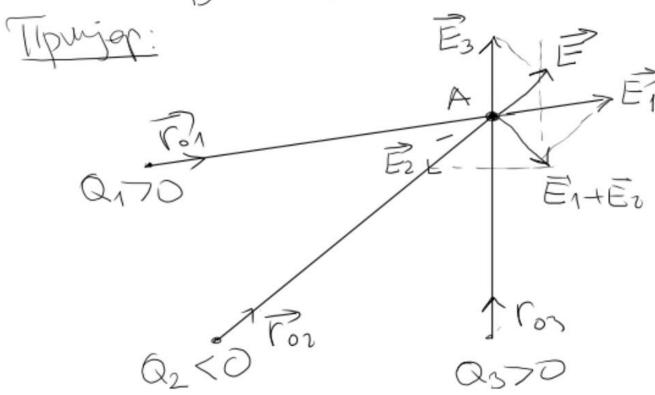


E - MEN

Da li je homogeno?

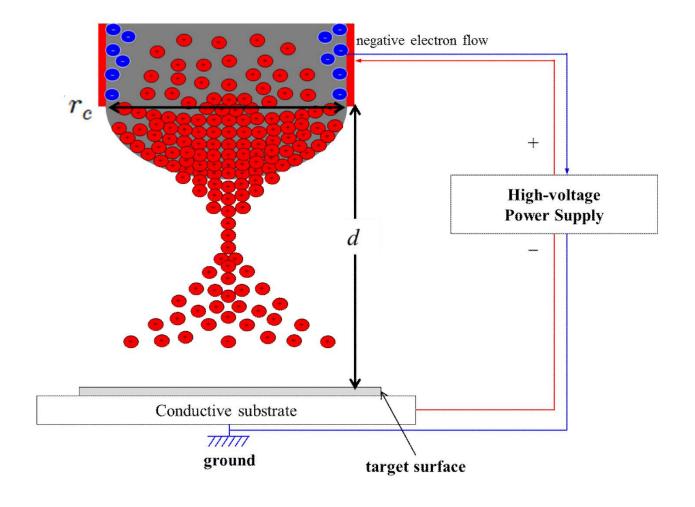
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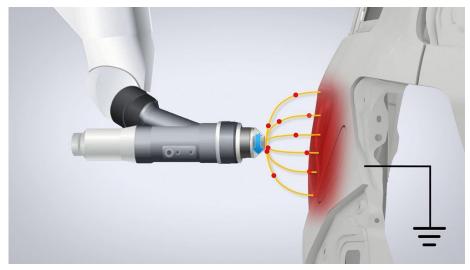
BEKTOPCKOM 354PY



#### Praktična primjena

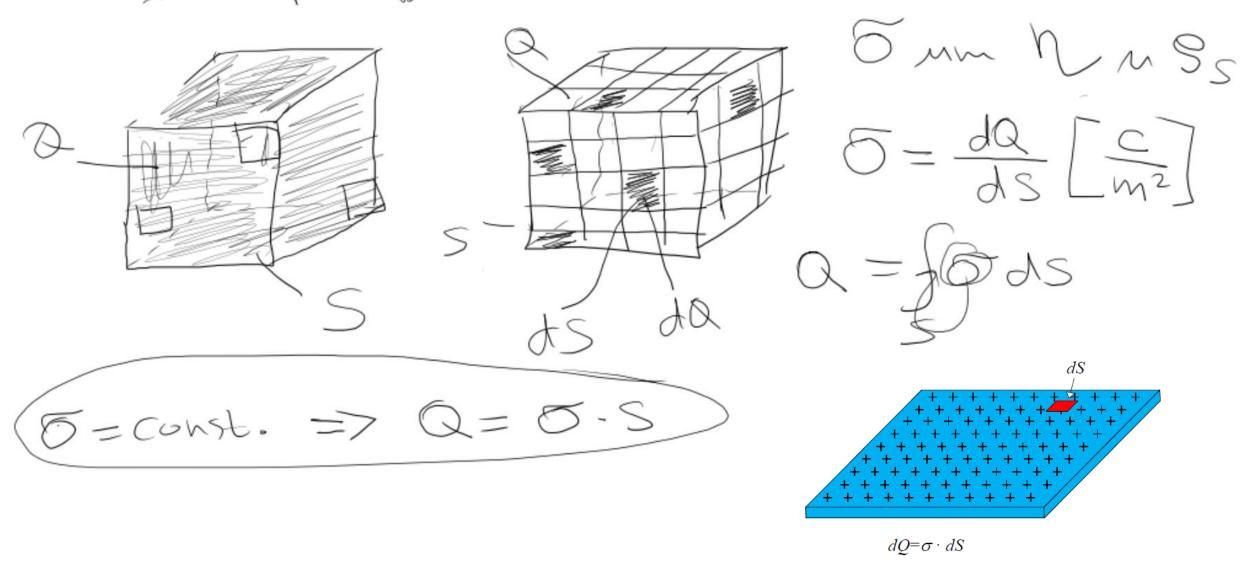
• Eng. Electrostatic Spray Deposition





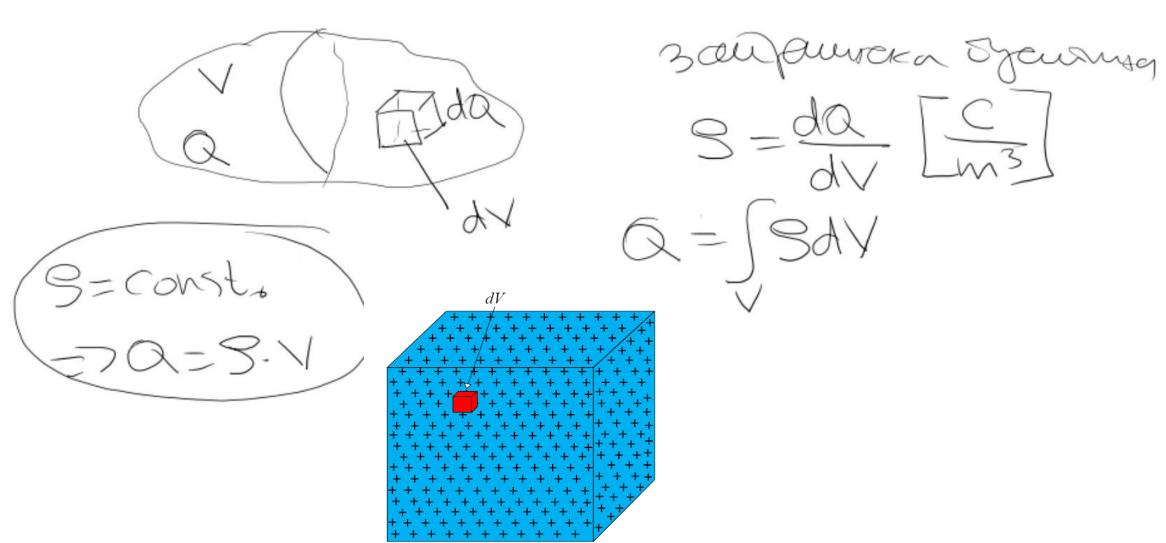
KOHTUHJANHO PACNOAJEBERD HAEN, W LOUXOBO EN. NOBE Eyearute Haen. - Municipera poemogijens Haenekurpeensa Museycka una adogyuma Oyanansa Q= (a). dl ans je Haen-persongens paragaens gras li

KOHTUHYANHO PACNOAJEBEGO HAEN. W LOUXOBO EN. NOBE mullera paarogjang Haen.



KOHTUHYANHO PACNODJEBEGO HAEN, W LOUXOBO EN. NOBE injep: a nb  $5(x) = 5_0 \frac{x^2}{4^2}$  3a 0 < x < a50 je const. Q=? Q= 10 ds = 80x ds unforme war X X2bdx = \80 \x2bdy = \80 \x3/\a => Q = 60003 - 100 ab

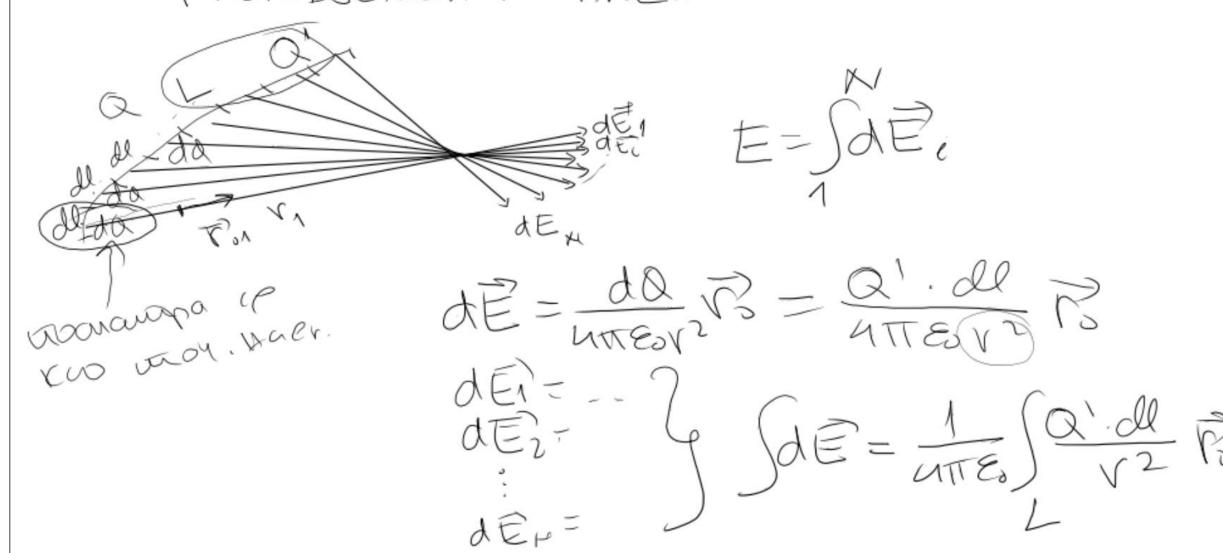
KOHTUHYANHO PACNODJEBERO HAEN. W LLOUXOBO EN. NOBE - 3augenunaca plangjana Haan.



 $dQ = \rho \cdot dV$ 

KOHTUHYANHO PACNODJEBEGO HAEN. W LOUXOBO EN. NOBE Thomison: a xomoran/Hexonovers 1° = const. Q= SSdV=S-V= S 493M S(n)=So ( )

KOHTUHYANHO PACNONIELDEDO HAEN. W LOUXOBO EN. NOBE Thomjer: a xonocar / Hexonovers Q= (30 = 442 TI dr So 5 dV = 4TT 80 14/9 dV -> dV(V) Q=175003 AV = 4/3 (r+dr)3 17-47317 S(n)=So 1 1 So=consh AV= 4x297 -44×27704 +4× (dx777 + 3 (dx78) PACNODUETOEAUX HAEN-



NOCTONAK OLPETUBAHDA EN, NOBA KOHTUHJAZHO PACNONIEWERUX HAEN-30 Tobpunaco Haer: Haar-3a yawpunrow waen:

PACNONIEWEAUX HAEN-

BEKDOPOUR CYNBRAOSULYWIN

みぎ=は記するころ E=Ex+E3 Ex=5dGx ES = SOIEY JE = JQ R dE= da = Q'.dl uner da=a'dl dEx = dE cos 3 = dE-sind dEy-dESING=dE.cosL dEy=Q'dl cosd

F y A (X0, y0) (cosd1-cosd2)