

$$Q_1$$
 $Q_2$ 
 $Q_4$ 
 $Q_4$ 
 $Q_3$ 

$$Q = -3,0 \times 10^{-3} C$$

$$Q_1 = -2,0 \times 10^{-3} C$$

$$Q_3 = 3,0 \times 10^{-3} C$$

$$T = l V_2 \quad (distante di coni$$

$$Conico dal centro del

quadrato)$$

$$F_1 + F_3 =$$

$$= K_0 \frac{|a||Q_1|}{\left(l \frac{\sqrt{2}}{2}\right)^2} + K_0 \frac{|a||Q_3|}{\left(l \frac{\sqrt{2}}{2}\right)^2} =$$

$$= \frac{K_{3}|9|\cdot 2}{\ell^{2}} \left( |Q_{4}| + |Q_{3}| \right) = \frac{8,388 \times 10^{3} \cdot 3,0 \times 10^{-9} \cdot 2}{(0,40)^{2}} \left( \frac{5,0 \times 10^{-9}}{10^{2}} \right) N$$

= 
$$1685,25 \times 10^{-3} N \sim [1,7 \times 10^{-6} N]$$