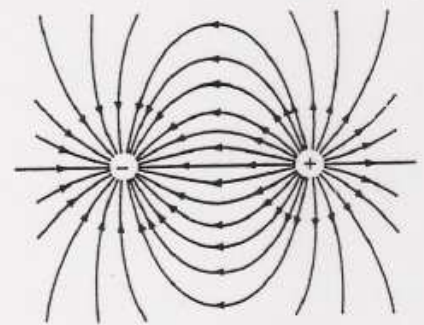
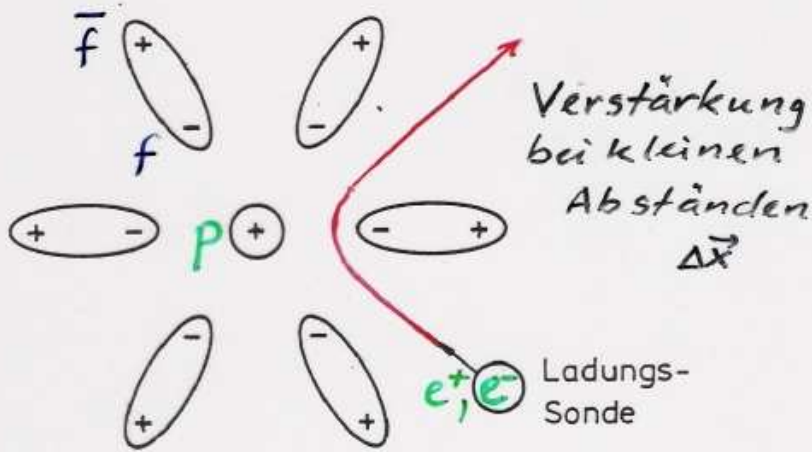


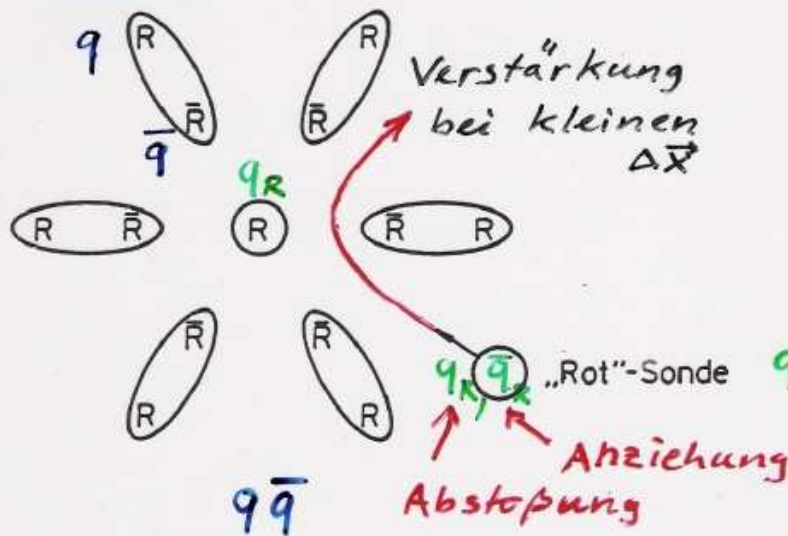
QED: Vakuumpolarisation



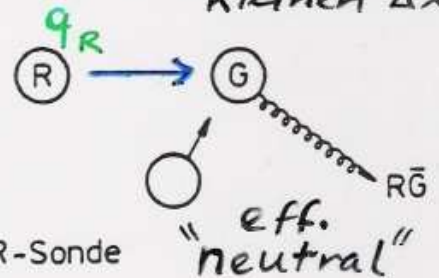
elektrisches Dipol-Feld:

$$V(r) = -\frac{e^2}{4\pi r}$$

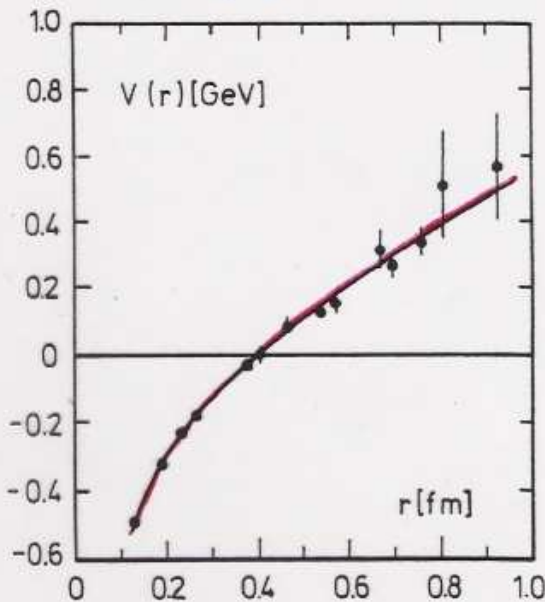
QCD: Vakuumpolarisation



Abschwächung bei kleinen Δx

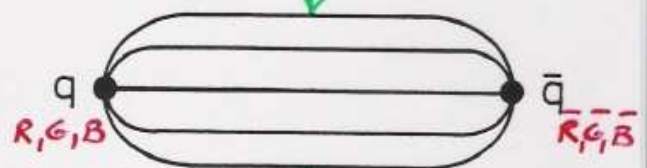


gg



Flussschlauch, durch Gluon-Selbstkopplung

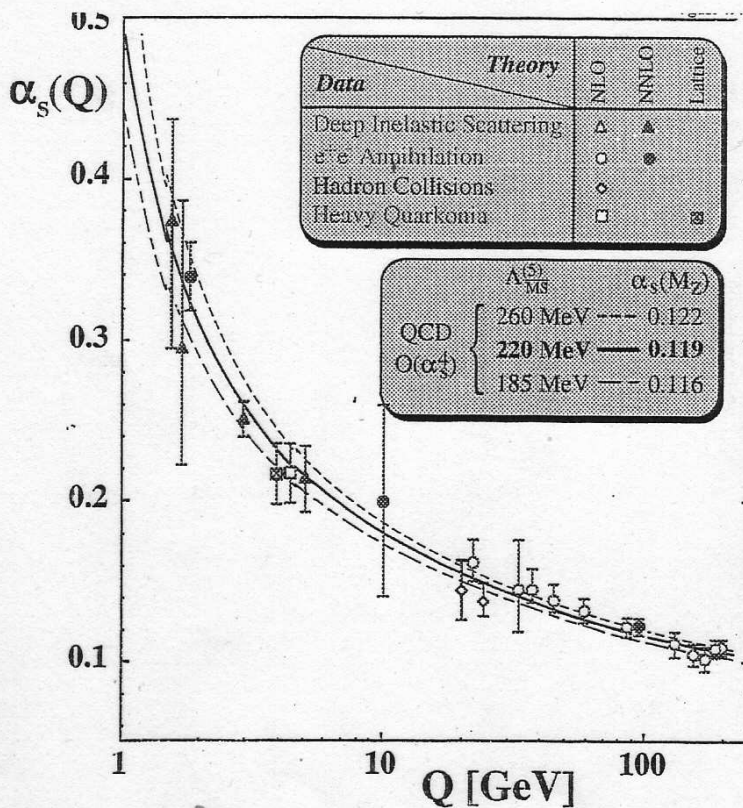
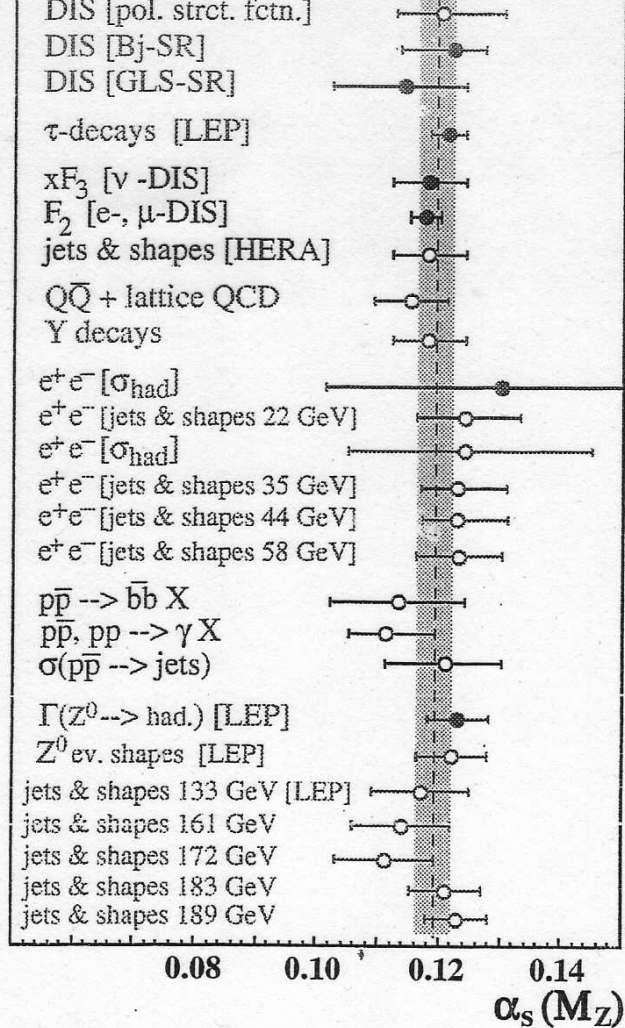
$\sim 1 \text{ fm } \phi$



chromoelektrisches Feld (Parametrisierung):

$$V_c^{q\bar{q}}(r) = -\frac{4\alpha_s}{3r} + \sigma \cdot r$$

QCD-Simulationsrechnung ($SU(3)$ -Singulett) (numerische Lösung)



$$\alpha_s(M_Z^2) = 0.118 \pm 0.002$$

