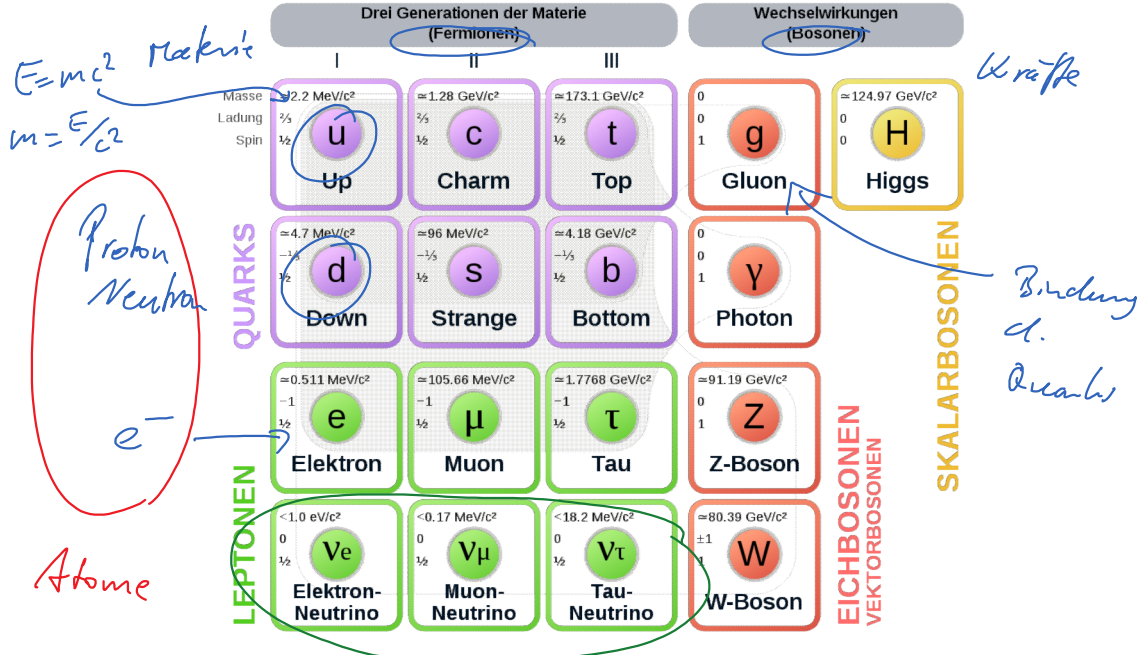


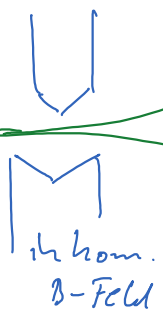
# Der Große Rest

## Standard-Modell der Elementarteilchen



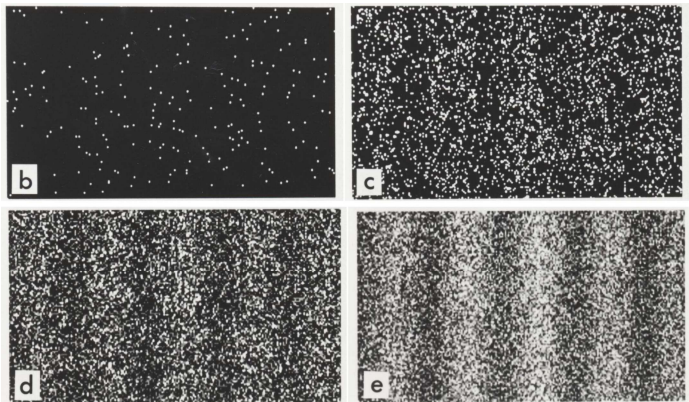
Elektron & Neutron

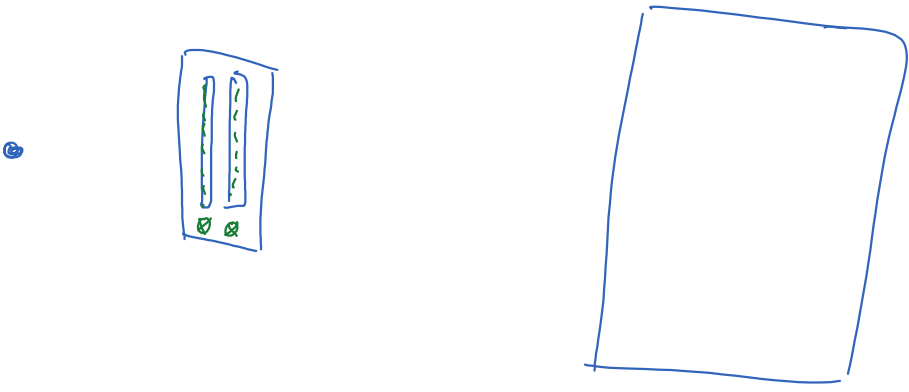
Atom



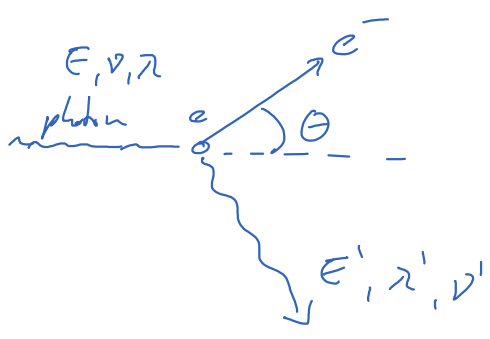
Exp. Spin  $\pm \frac{1}{2}$

Erwartung





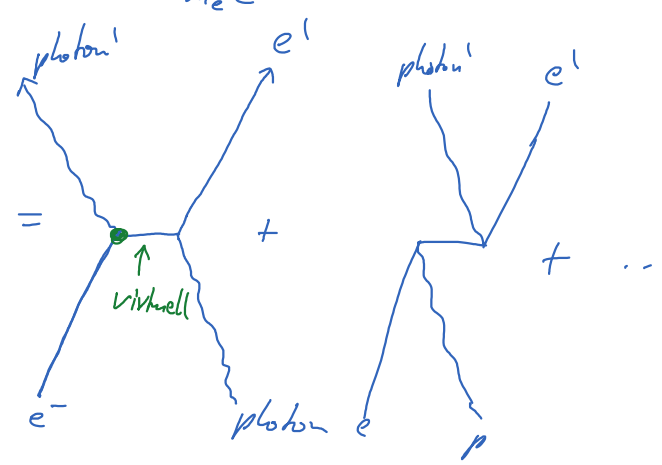
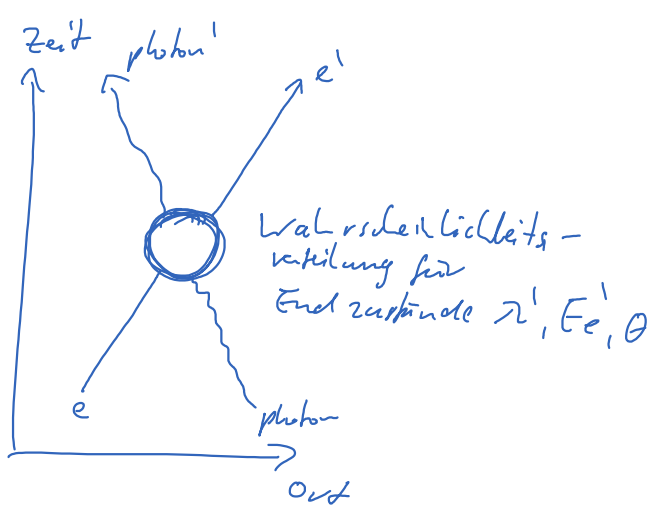
# Compton - Streuung



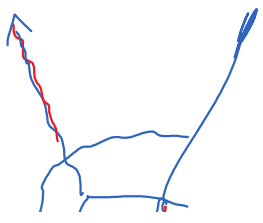
$$\Delta\lambda = \lambda' - \lambda = \lambda_c (1 - \cos\theta)$$

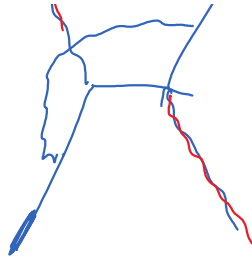
↑  
Compton - Wellenlänge

$$\lambda_c = \frac{h}{m_e c}$$



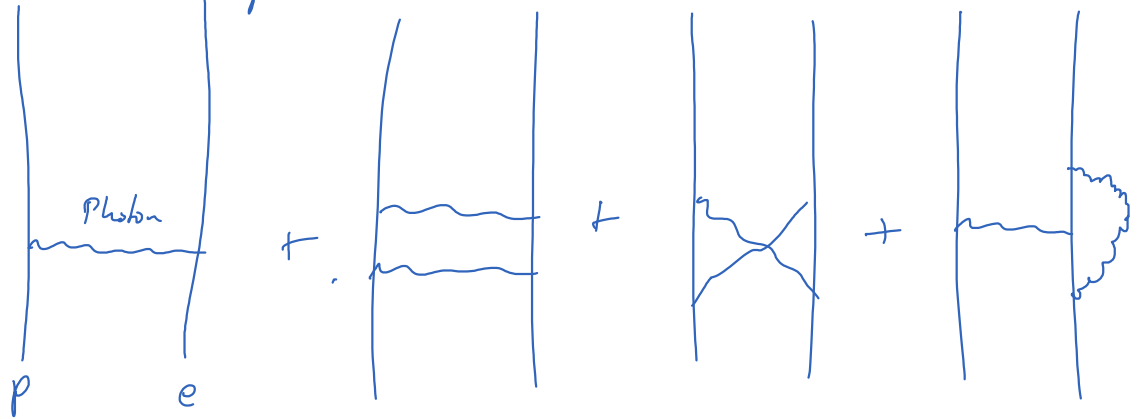
QFT





H Atom

Bildung  
von  $e^-$  und  $p^+$



$$(g-2)_e$$

↑  
messen

$$(g-2)_\mu$$

$$= C_1 \frac{\alpha}{\pi} + C_2 \frac{\alpha^2}{\pi^2} + C_3 \left(\frac{\alpha}{\pi}\right)^3 + \dots$$

Rechnung

Rechnung

Rechnung

BSM

Bestimmung der  
Feynman-Konstante