„Weltformel"

$$\mathcal{L} = \sqrt{g}\Big\{ \tfrac{1}{4} G^{\mu\nu} G_{\mu\nu} + \tfrac{1}{4} W^{\mu\nu} W_{\mu\nu} + \tfrac{1}{4} Y^{\mu\nu} Y_{\mu}$$

$$+ i\,\bar{q}\,\gamma^{\mu} D_{\mu} q$$

$$+ i\,\bar{\ell}\,\gamma^{\mu} D_{\mu} \ell$$

$$+ D_{\mu}\varphi^{+} D^{\mu}\varphi - \mu^{2}\varphi^{+}\varphi + \tfrac{1}{2}\lambda(\varphi^{+}\varphi)^{2}$$

$$+ \big[\bar{q}_{L} h_{u} \varphi u_{R} + \bar{q}_{L} h_{d} \tilde{\varphi} d_{R}$$

$$+ \bar{\ell}_{L} h_{L} \tilde{\varphi} \ell_{R} + h.c.\big]$$

$$+ \frac{1}{16\pi} M_{P}^{2} R \Big\}$$

+ Neutrino - Massen - Terme

+ B und L verletzende nicht-renormierbare Wechselwirkungen

+ Kosmologische Konstante oder