

Drei Generationen der Materie (Fermionen)

	I	II	III	
Quarks	Spin = $\frac{1}{2}$ u Up-Quark	Spin = $\frac{1}{2}$ c Charm-Quark	Spin = $\frac{1}{2}$ t Top-Quark	Spin = 1 γ Photon
	Spin = $\frac{1}{2}$ d Down-Quark	Spin = $\frac{1}{2}$ s Strange-Quark	Spin = $\frac{1}{2}$ b Bottom-Quark	Spin = 1 g Gluon
	Spin = $\frac{1}{2}$ ν_e Elektron-Neutrino	Spin = $\frac{1}{2}$ ν_μ Myon-Neutrino	Spin = $\frac{1}{2}$ ν_τ Tau-Neutrino	Spin = 1 Z^0 Z-Boson
Leptonen	Spin = $\frac{1}{2}$ e Elektron	Spin = $\frac{1}{2}$ μ Myon	Spin = $\frac{1}{2}$ τ Tauon	Spin = 1 W^\pm W-Boson
				Spin = 0 H Higgs-Kandidat