P	aP	Name	Spin	EM charge	Color	Comment
A_{μ}	A_{μ}	photon	1	0	1	gauge
Z_{μ}	Z_{μ}	Z boson	1	0	1	gauge
$G_{\mu p}$	$G_{\mu q}$	gluon	1	0	8	gauge
W^+_{μ}	$W^-{}_{\mu}$	W boson	1	1	1	gauge
$\nu^e_{\ a}$	$\bar{\nu}^e{}_a$	neutrino	1/2	0	1	left
e_a	\bar{e}_a	electron	1/2	-1	1	
$\nu^{\mu}{}_{a}$	$ar{ u}^{\mu}{}_{a}$	mu-neutrino	1/2	0	1	left
μ_a	$ar{\mu}_a$	muon	1/2	-1	1	
$\nu^{\tau}{}_{a}$	$\bar{ u}^{ au}{}_{a}$	tau-neutrino	1/2	0	1	left
τ_a	${ar au}_a$	tau-lepton	1/2	-1	1	
u_{ap}	\bar{u}_{aq}	u-quark	1/2	$\frac{2}{3}$	3	
d_{ap}	$ar{d}_{aq}$	d-quark	1/2	$-\frac{3}{3}$	3	
c_{ap}	\bar{c}_{aq}	c-quark	1/2	$\frac{2}{3}$	3	
s_{ap}	$ar{s}_{aq}$	s-quark	1/2	$-\frac{4}{3}$	3	
t_{ap}	$ar{t}_{aq}$	t-quark	1/2	$\frac{2}{3}$	3	
b_{ap}	$ar{b}_{aq}$	b-quark	1/2	2131-132131-132131-13	3	
H	H	Higgs	0	Ŏ	1	