

MATTER

FORCE CARRIERS

First generation

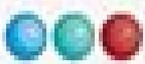
Second generation

Third generation

QUARKS

up
u 

charm
c 

top or truth
t 

down
d 

strange
s 

bottom or beauty
b 



LEPTONS

electron
e

muon
μ

tau
τ

electron neutrino
ν_e

muon neutrino
ν_μ

tau neutrino
ν_τ

PHOTON



electromagnetism

BOSON



weak nuclear force

GLUON



strong nuclear force

HIGGS BOSON



mass giver

The New Physics

Lingsheng Yao



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