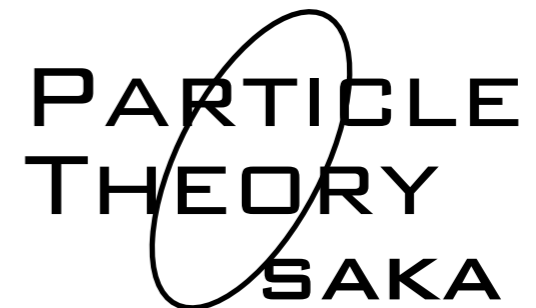


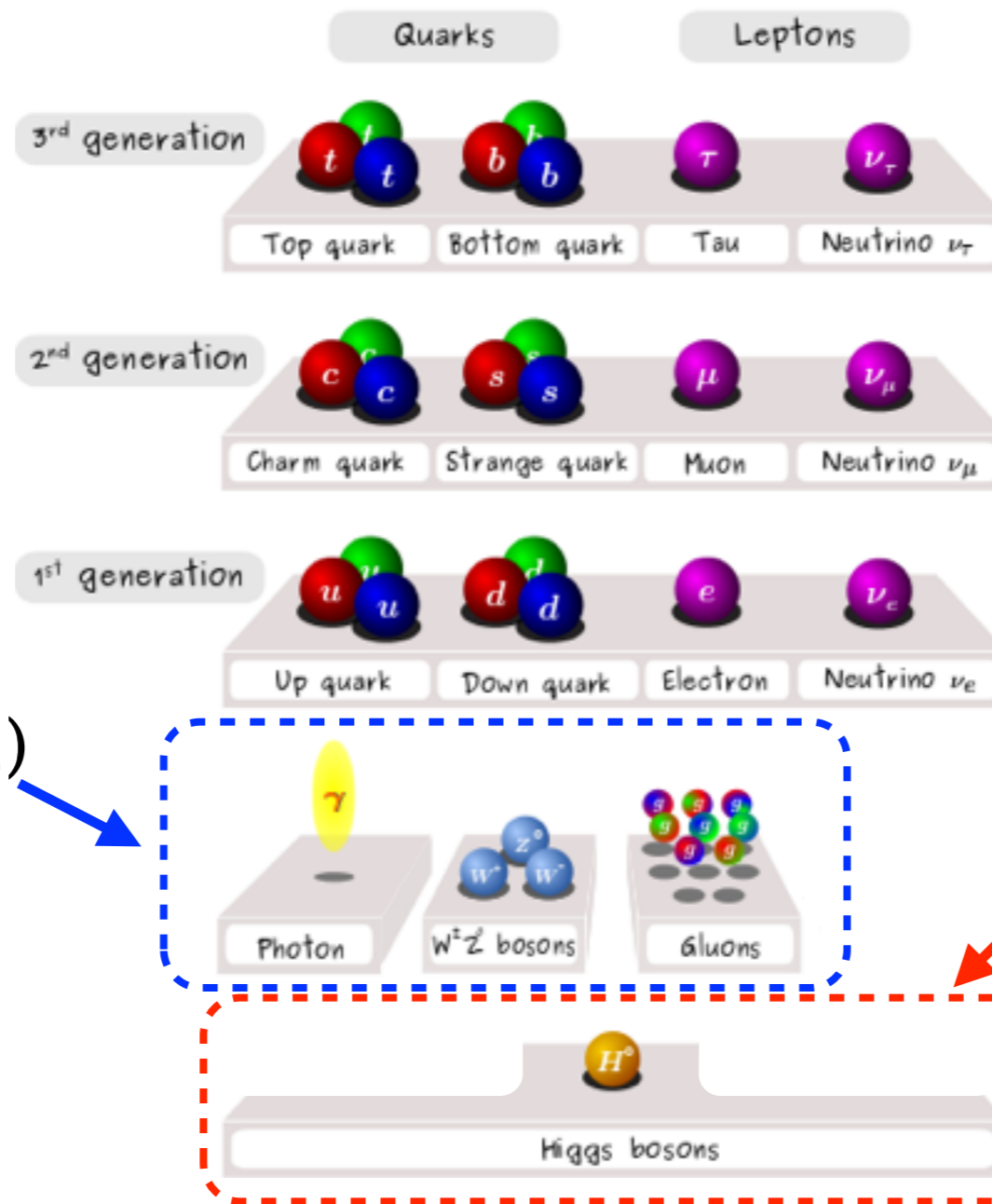
Integrable Lattice Models & Supersymmetric Gauge Theories in 4d



Hironori Mori
(Osaka Univ.)



Standard Model



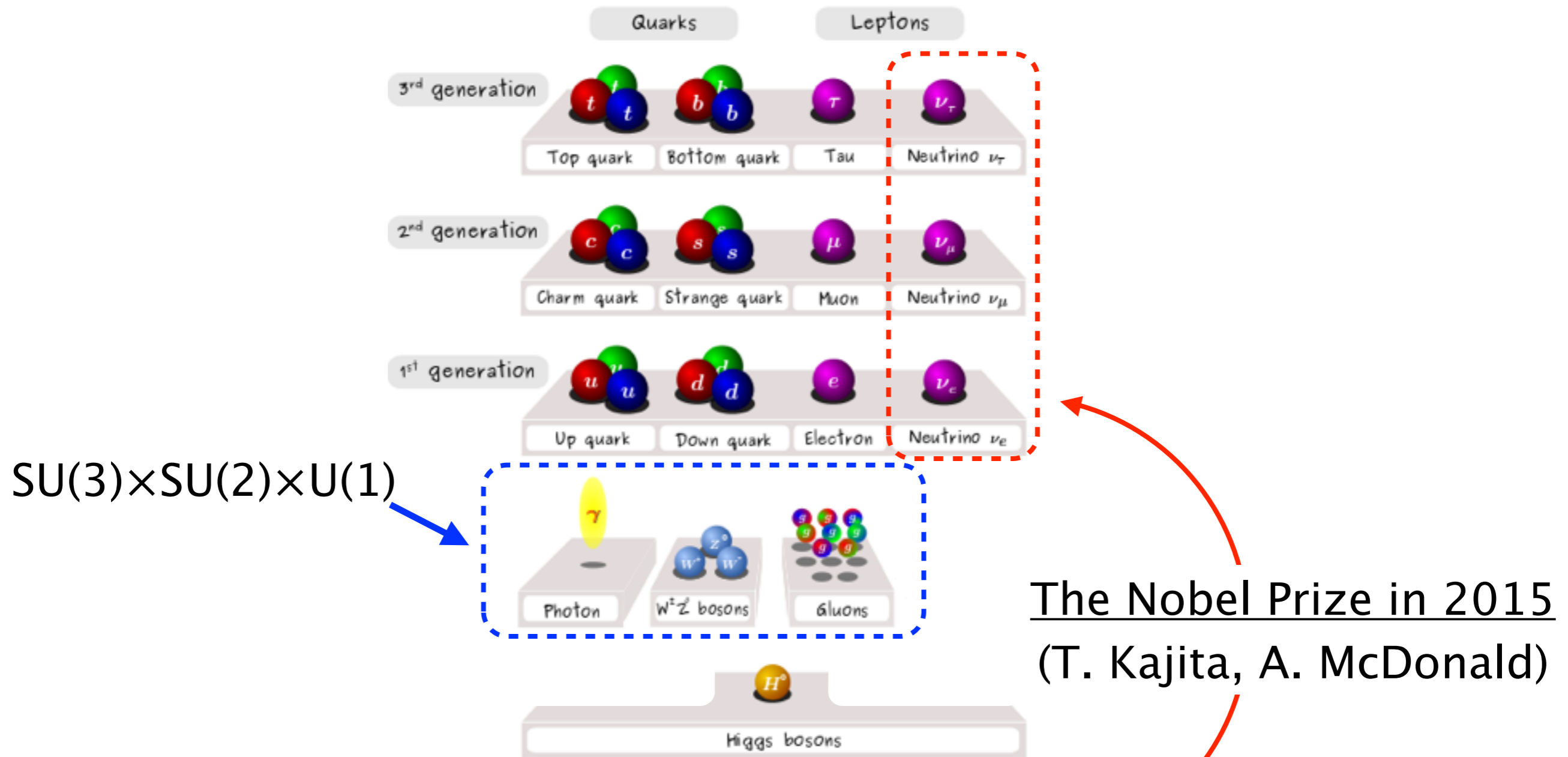
$SU(3) \times SU(2) \times U(1)$

The Nobel Prize in 2013
F. Englert, P. Higgs

The Nobel Prize in 2008

Y. Nambu, M. Kobayashi, T. Masukawa

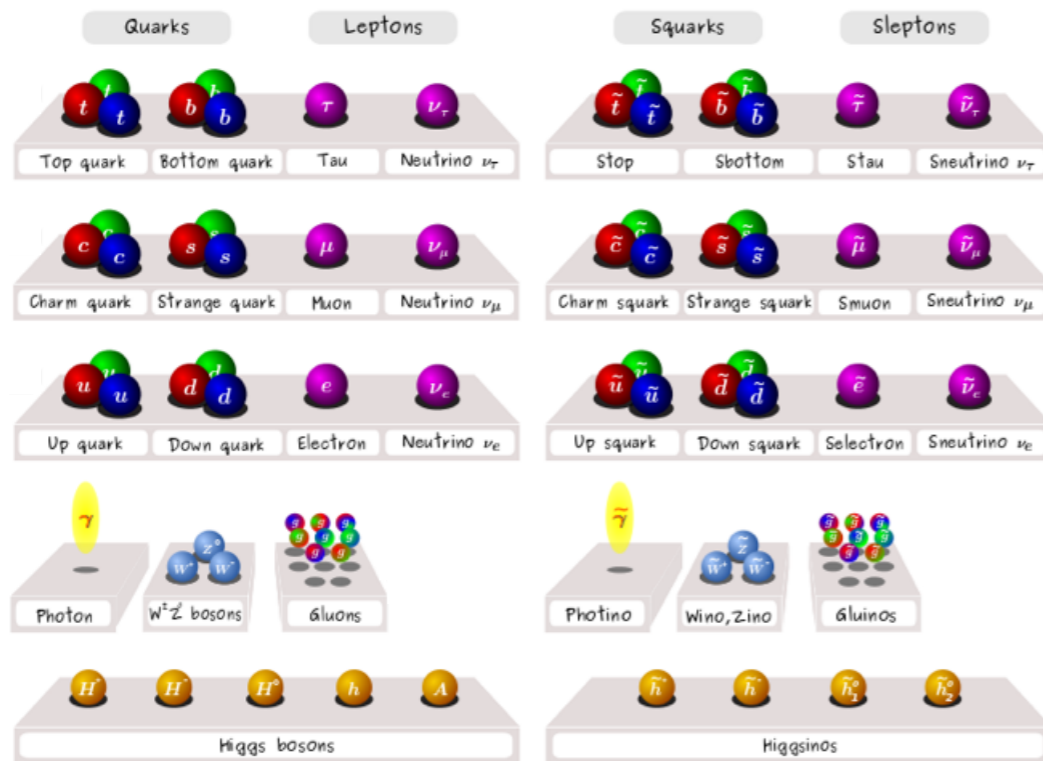
Beyond Standard Model?



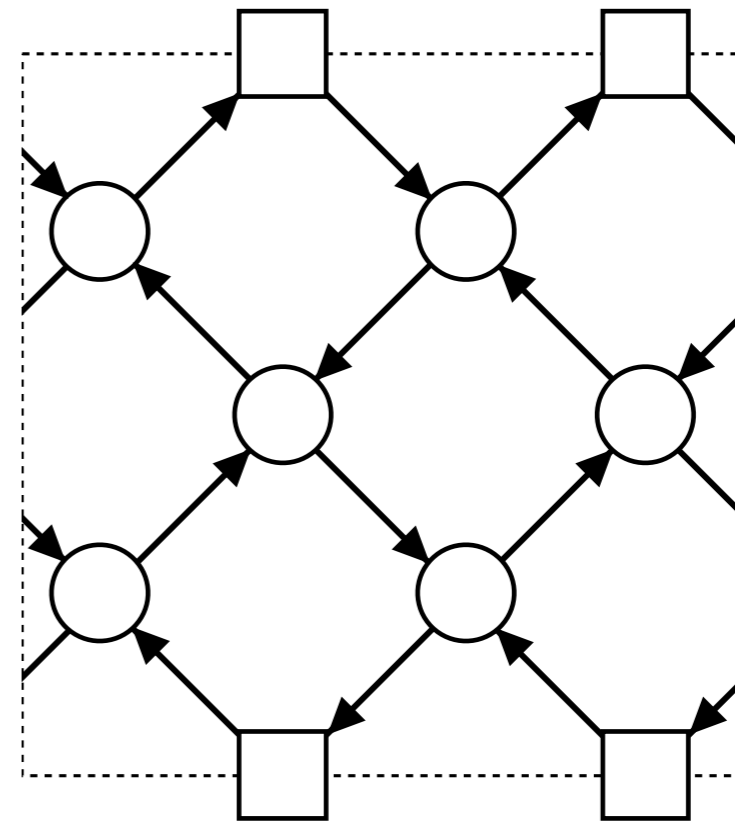
- Necessity of masses of neutinos.
- How to unify gravity in quantum sense?

Beyond Standard Model?

- Supersymmetry

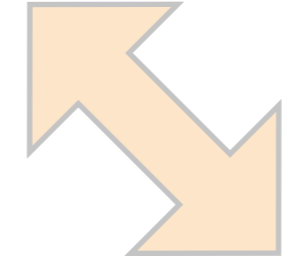


- Quiver diagram



Mathematics

Integrability with topology



Quantum physics

Supersymmetric gauge theory

Statistical mechanics

Lattice model

