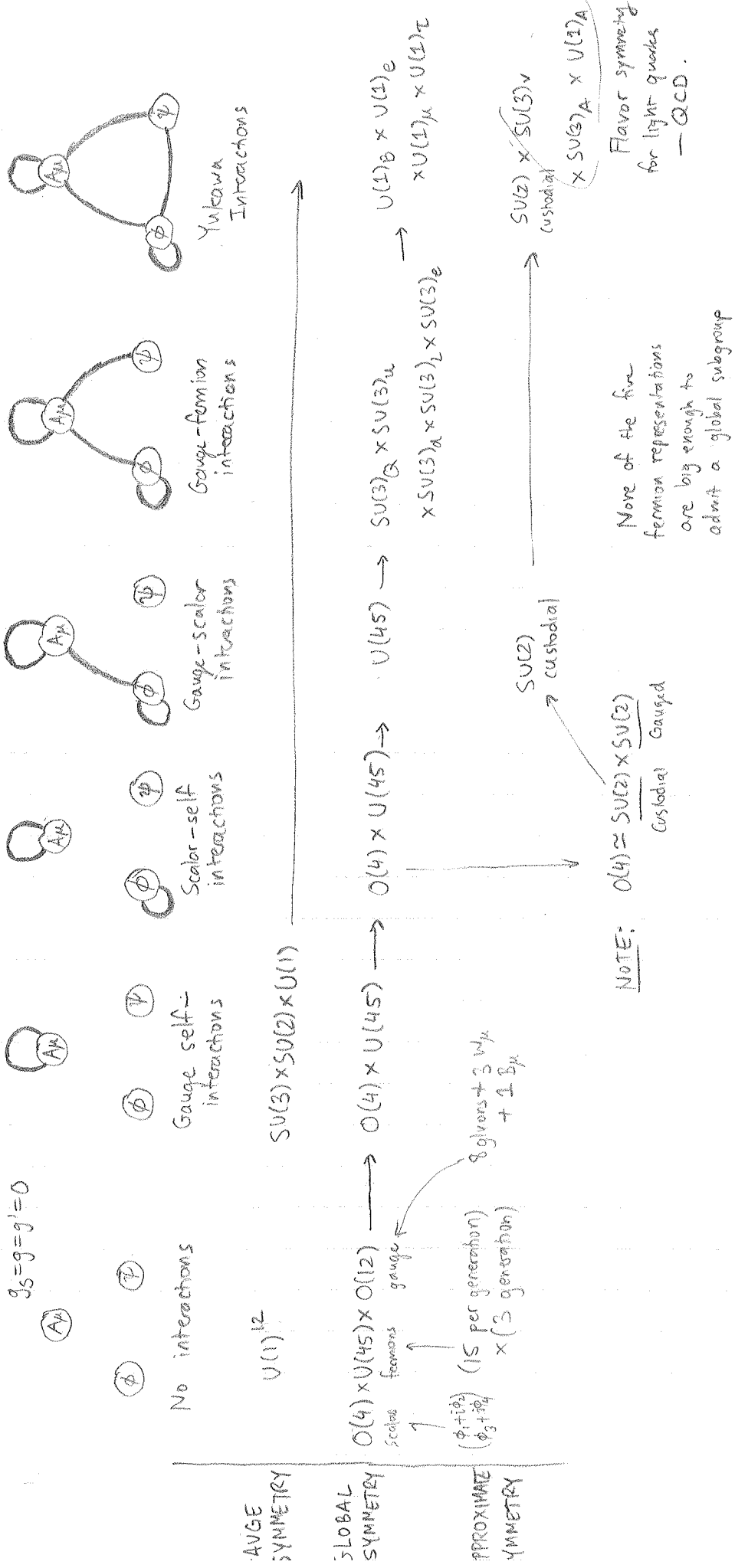


Symmetries of the Standard Model



Upon Quantization, all U(1) global symmetries become anomalous:

- Quantum Chromodynamics
- Electroweak

approximate $U(1)_A$

LEFT OVER GLOBAL SYMMETRIES OF THE FULL QUANTUM THEORY

$U(1)_{e-\mu} \times U(1)_{\mu-\tau} \times U(1)_{e-\tau} \times U(1)_{B-L}$