

1/31/08 Lecture outline

- Continue to discuss $SU(3) \times SU(2) \times U(1)_Y$ charged fermions of the Standard Model.
- Discuss how all gauge anomalies GGG vanish. Non-trivial, since chiral matter content.
 - No allowed mass terms. Also need electroweak symmetry breaking. Introduce the Higgs, and write allowed Yukawa interactions.
 - Start to discuss relevant, marginal, irrelevant interactions.