



JOINT CCQC - CCTP SEMINAR

Wednesday, 22 October 2014

14:00-15:00

2nd Floor Seminar Room

GUTs without guts

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Abstract

The discrete structure of the Standard Model (gauge group, representations and in particular charge quantization) is derived in a class of intersecting brane models from a mild anthropic constraint, namely the existence of electrodynamics. Although Grand Unification is realized in a subclass, this offers no advantages whatsoever. In all other cases the Standard Model is realized as a GUT with its intestines removed, to keep only the good parts: a GUT without guts.

