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GUTs -how common are they?

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The individual fermion generations of the Standard Model fit neatly into a representation of a simple Grand Unified Theory gauge algebra. If Grand Unification is not realised in nature, this would appear to be a coincidence. We attempt to quantify how frequent this coincidence is among theories with group structure and fermion content similar to the Standard Model. While not constituting evidence, this bottom-up theory-space investigation can be interpreted as a naturalness-like argument for what lies beyond the Standard Model.

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