## International Workshop on Grand Unified Theories: Current Status and Future Prospects



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## **Towards a Realistic Grand Gauge-Higgs Unification**

Tuesday, 18 December 2007 16:30 (20 minutes)

We investigate a 5D SU(6) grand gauge-Higgs unification model compactified on an orbifold S<sup>1</sup>/Z\_2. Ordinary quarks and leptons, together with right-handed neutrinos, are just accommodated into a minimal set of representations of the gauge group, without introducing any exotic states. The proton decay turns out to be forbidden at least at the tree level. We also find a correct electroweak symmetry breaking SU(2)*L* \*times*  $U(1)_Y$  \to U(1){em} is easily realized by introducing suitable number of adjoint fermions.

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