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Unification in Higher Dimensional Scenario

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In this talk, I will briefly describe how the characteristics of gauge, Yukawa and quartic coupling evolution change in the presence of universal extra dimensions. The gauge coupling unification scale depends on compactification radius R , and is much lower in comparison to the four-dimensional case. Later, I will mention that the supersymmetric extension of this scenario requires a much larger value of R^{-1} , in order that the gauge couplings remain perturbative up to the unification scale.

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