



**Sudan University of Science and Technology**  
**College of Graduate Studies**  
**Department of Physics**



# **Gauge Coupling Constants Unification In Extra Dimension Model**

**توحيد ثوابت البنية العيارية في نموذج الأبعاد الزائدة**

**A thesis submitted to the college of graduate studies as partial fulfillment of  
the requirements for the degree of Master of Science in physics.**

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