



# **The Origin of the Eight Coupling Constants of The Theory of Everything**

**U(8) Grand Unified Theory of Everything (GUTE)**

**$S^4$  Coupling Constant Symmetry**

**Space-Time Dependent Coupling Constants**

**Big Bang Vacuum Coupling Constants**

**Physics is Logic IV**

**Stephen Blaha**

# Origin Coupling Constants Theory Everything

**Takeshi Fukuyama, Tatsuru Kikuchi**



## **Origin Coupling Constants Theory Everything:**

*Conceptual Development of 20th Century Field Theories* Tian Yu Cao,2019-10-03 An overview of the conceptual and historical foundations of fundamental field theories including their underlying issues logic and dynamics    [An Introduction to Gauge Theories](#) J. Iliopoulos,1976    *The Origin of the Eight Coupling Constants of the Theory of Everything* Stephen Blaha,2015-12-09    *Methods in Field Theory* Jean Zinn-Justin,1976    **High Energy Physics Index** ,1990    **Nuclear Physics** ,1997    **INIS Atomindex** ,1987    **Journal of the Physical Society of Japan** Nihon Butsuri Gakkai,2006    **Mathematical Reviews** ,2007    **Physics Briefs** ,1993    *Grand Unified Theories: Current Status and Future Prospects* Takeshi Fukuyama,Tatsuru Kikuchi,2008-05-29 We are confronting unprecedented situations that astrophysical observation meets with high energy physics The discoveries of dark matter and dark energy as well as neutrino masses indicate the theory beyond the Standard Model which could be the Grand Unified Theory GUT In this proceeding the GUT is intensively discussed from the various points of views    **Physics Letters** ,2002    **Energy Research Abstracts** ,1994    [Advances in Theoretical and Mathematical Physics](#) ,2008    *Atomic & Molecular Beam Spectroscopy* American Association of Physics Teachers,1965    **Particle Physics in the Nineties** Gustavo C. Branco,Mário Pimenta,1995    **Soviet Journal of Nuclear Physics** ,1996    **Vacuum in Non-relativistic Matter-radiation Systems** Franco Persico,Edwin Albert Power,1988    **Progress of Theoretical Physics** ,1974    *Electroweak Interactions and Unified Theories* ,1994

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