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Explaining the Standard Model criticality from Coleman's Theory

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The observed Higgs mass indicates that its quartic coupling and beta function (and also bare mass) can simultaneously vanish around the Planck scale. Such a non-trivial behavior of the Higgs potential is called the criticality of the Standard Model. Here, we show that it can be explained based on the Coleman's multi-local theory.

Summary

Author: Mr KAWANA, Kiyoharu (Kyoto University)

Presenter: Mr KAWANA, Kiyoharu (Kyoto University)

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