

## Physical remnant of Electro-weak theta angle

In addition to well-known strong CP violation theta angle, we find another invariant electro-weak theta angle after electro-weak symmetry breaking(EWSB), which can be another physical parameter of the Standard Model. It could be physical if the spacetime is a non-simply connected manifold beyond our visible universe or a laboratory setup of the non-simply connected background field. The new theta angle may be detected in future experiments, and provide constraints on new physics beyond the standard model.

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