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On vacuum angle (in)dependence in the Higgs regime

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We revisit the issue of the vacuum angle θ dependence in the weakly coupled (Higgsed) Yang-Mills theories. Anselm and Johansen noted that the vacuum angle θ_{EW} associated with the electroweak $SU(2)$ of the Standard Model is unobservable although all fermions get masses through Higgsing and there is no axion. We generalize this idea to a broad class of Higgsed Yang-Mills theories. We also consider the issue in frameworks of Grand Unification where situation turns out to be different.

Primary author: VAINSHTEIN, Arkady (University of Minnesota)

Presenter: VAINSHTEIN, Arkady (University of Minnesota)

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