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Stabilization of the electroweak vacuum by a scalar threshold effect

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Recent studies have shown that, for the current experimental values of M_H , M_t and α_s , the SM scalar potential develops a second minimum, deeper than the electroweak (EW) one. I will review a simple and efficient mechanism to stabilize the EW vacuum. The mechanism involves an extra scalar singlet and can be operative in existing see-saw, invisible axion and unitarized Higgs inflation models.

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