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Flavor singlet mesons in QCD with varying number of flavors

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Flavor singlet pseudoscalar and scalar mesons are important objects for both SM-QCD and technicolor models. The study utilizes the handle of the number of flavors in the many-flavor QCD simulations, which has been performed by LatKMI collaboration. Through this, implications to both SM-QCD and technicolor, which could help understand the dynamics of flavor singlet sector, are anticipated. We report on the on-going study towards this direction with high-statistics HISQ configurations mainly with $N_f = 8$ and 4.

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