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S-parameter and vector decay constant in QCD with eight fundamental fermions

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SU(3) gauge theory with eight massless fundamental fermions seems to be near the conformal boundary, and is a candidate of walking technicolor. Along the series of study by LatKMI collaboration using HISQ fermions, S-parameter and vector decay constant, which provide important constraints in the model building, are calculated for this theory. Use of various volumes allows a systematic investigation of finite volume effect, where a strong sensitivity on the S-parameter is found.

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