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## The long-distance behavior of the vector correlator from pi-pi scattering at the physical point.

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We present the finite volume contributions to the long distance behavior of the vector correlator, which is dominated by the two-pion scattering states in the  $I = 1$  channel. The finite volume spectroscopy calculations have been performed using the (stochastic) distillation framework on the physical point  $N_f = 2 + 1$  CLS ensemble. We also compute the timelike pion form factor to reconstruct the long distance part of the vector correlator. The reconstructions improve the lattice estimates of hadronic vacuum polarization contribution to the muon anomalous magnetic moment.

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