

Predictions by Hosotani

July 25, 2021

We show a comparison of the values of m_π and m_η computed with the prediction by Hosotani and by means of lattice simulations. We show two predictions by Hosotani for $L = 64$ and $L_t = 10$, in one we assume that $m_\eta = \sqrt{m_\pi^2 + 2g^2/\pi}$ and in other we set $m_\eta = \sqrt{2g^2/\pi}$ (its value in the chiral limit for two flavors).

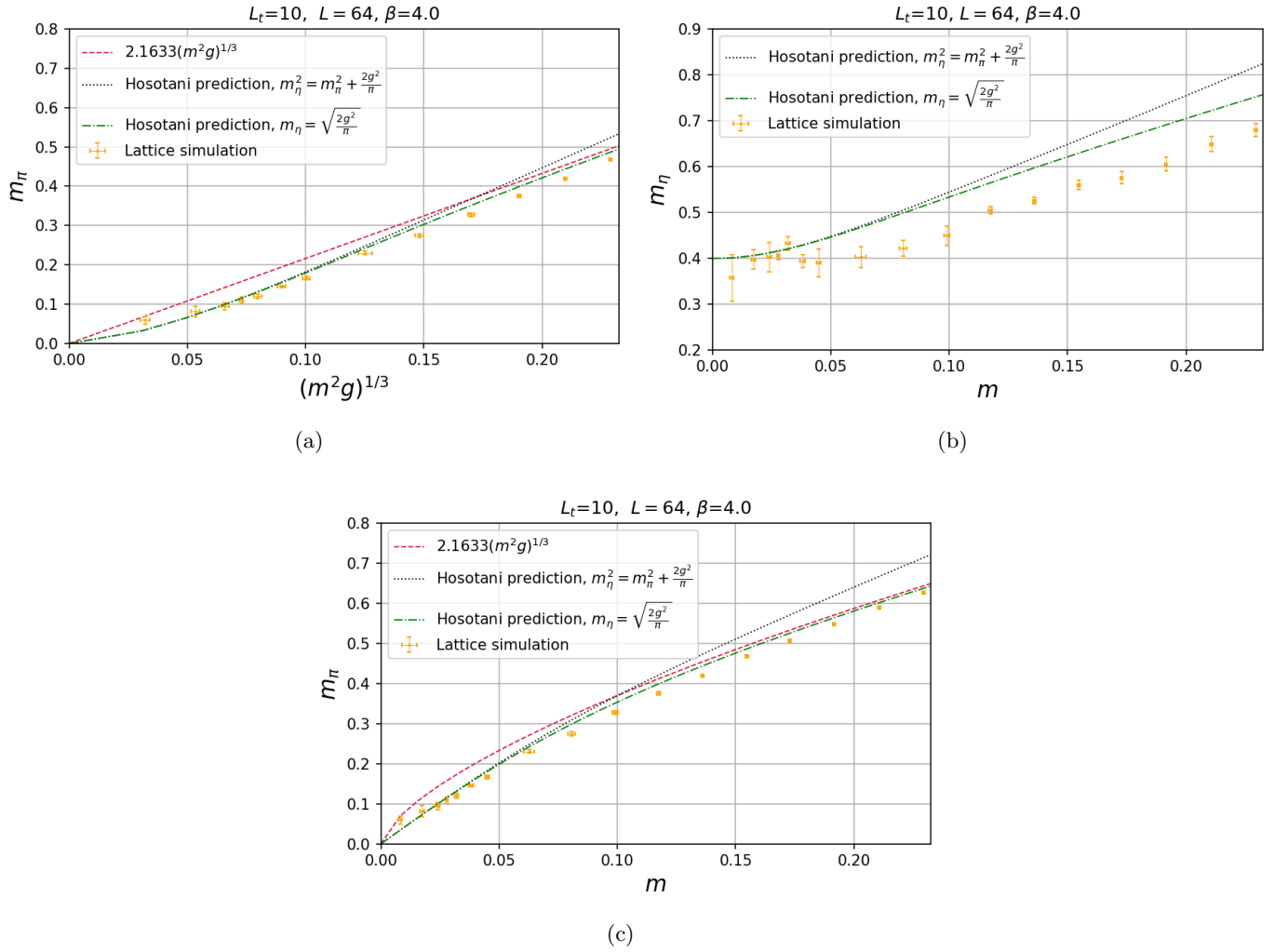
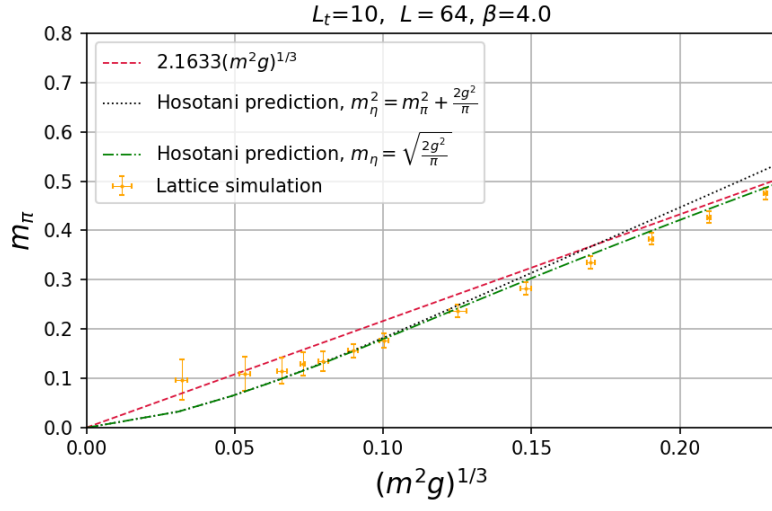
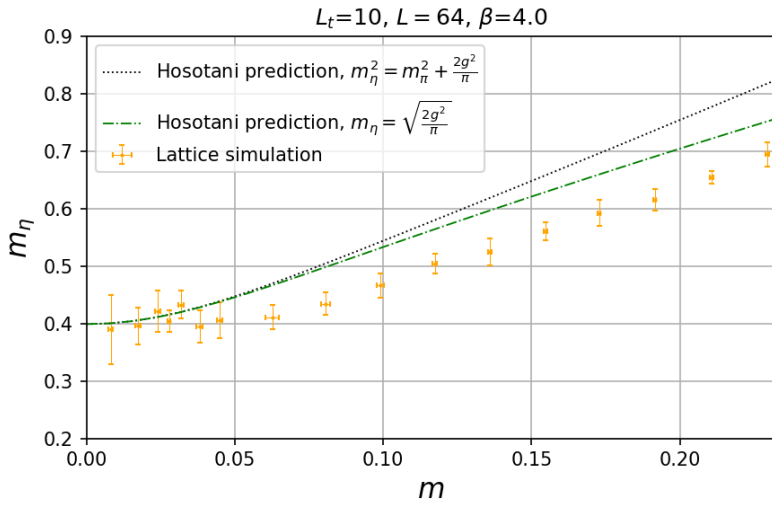


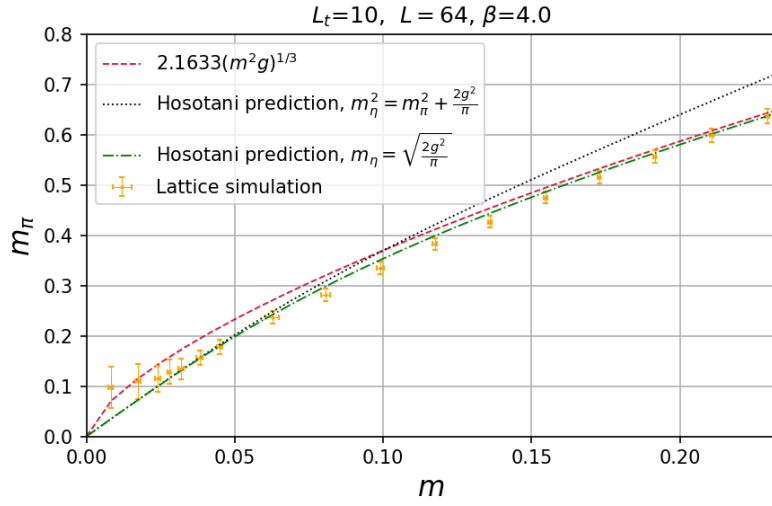
Figure 1: m_η and m_π computed with the prediction by Hosotani and with lattice simulations. Two points were used to fit the mass plateau.



(a)

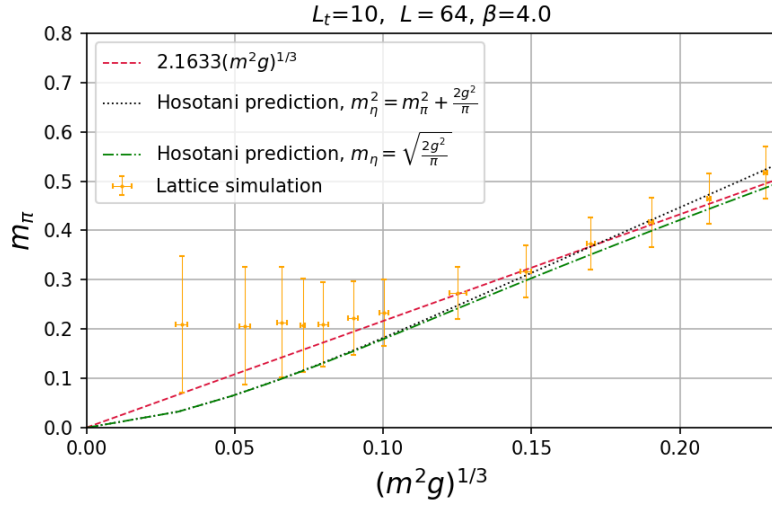


(b)

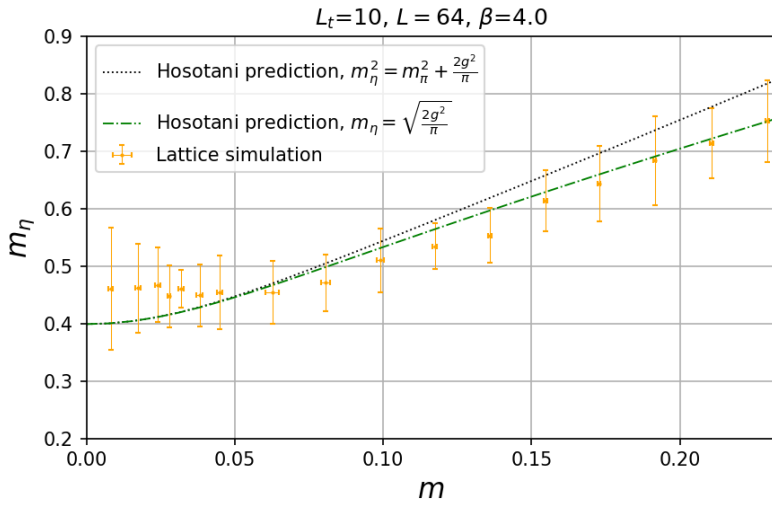


(c)

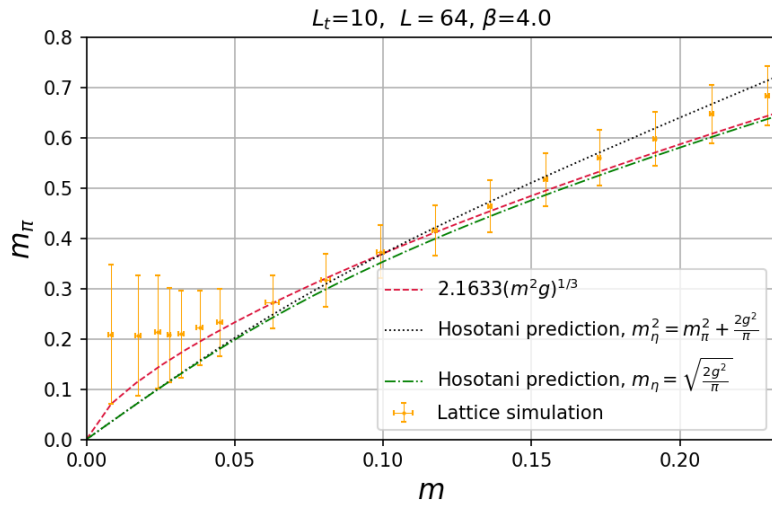
Figure 2: m_η and m_π computed with the prediction by Hosotani and with lattice simulations. Three points were used to fit the mass plateau.



(a)



(b)



(c)

Figure 3: m_η and m_π computed with the prediction by Hosotani and with lattice simulations. Four points were used to fit the mass plateau.