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Analogies between Lattice QCD and Truncated Nambu–Jona-Lasinio Model

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A modified Nambu–Jona-Lasinio Model with lattice structure is very instructive since it shows several similar problems and their solutions as the Lattice QCD. We study the limits of the large box size, small cell size and realistic pion mass. In particular, we study the relation of the discrete (bound state) solutions to the physical scattering states, for example the pion-pion scattering.

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