Preprint Series in Particles and Cosmos Physics n° IPARCOS-UCM-23-137

Thermal hadron resonance and Ward identities: results for the QCD phase diagram

by A.Gómez Nicola, J.Ruiz de Elvira, and A.Vioque-Rodríguez



December 2023

Plaza de las Ciencias, 1 28040 Madrid, Spain www.ucm.es/iparcos/









Abstract

We review recent work regarding the role of light scalar resonances at finite temperature for chiral symmetry and \$U(1)_A\$ restoration. The results obtained are based on unitarized Chiral Perturbation Theory and Ward Identities and are directly connected with presently open problems within the QCD phase diagram

