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Effective Lagrangians and thermal resonances under extreme conditions

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We analyze different problems related to the physics of hadrons under extreme conditions of temperature and chemical potentials. On the one hand, we show that the thermal resonances $f_0(500)$ and $K_0^*(700)$, generated in the framework of Unitarized Chiral Perturbation Theory $\pi\pi$ and $K\pi$ scattering at finite temperature, play an essential role with respect to chiral and $U(1)_A$ restoration. On the other hand, a low-energy effective lagrangian is constructed within ChPT at non-zero chemical potential, considering non-zero isospin and axial chemical potentials.

session

E. Hadron and Nuclear Interactions

Primary author: VIOQUE-RODRÍGUEZ, Andrea (Universidad Complutense de Madrid)

Co-authors: GÓMEZ NICOLA, Angel (Universidad Complutense de Madrid); RUIZ DE ELVIRA, Jacobo (Universidad Complutense de Madrid)

Presenter: VIOQUE-RODRÍGUEZ, Andrea (Universidad Complutense de Madrid)

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