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Continuum threshold and Polyakov loop as deconfinement order parameters

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Content

We study the relation between the continuum threshold within finite energy sum rules and the trace of the Polyakov loop in the frame of a nonlocal SU(2) chiral quark model, establishing a contact between both deconfinement parameters at finite temperature and chemical potential. In our analysis, we also incorporate the chiral quark condensate as an order parameter for the chiral symmetry restoration. We found that the continuum threshold and the trace of the Polyakov loop provide the same information for the deconfinement transition, both for the zero and the finite chemical potential cases.

Session

Hadronic final states in high p_T interactions

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