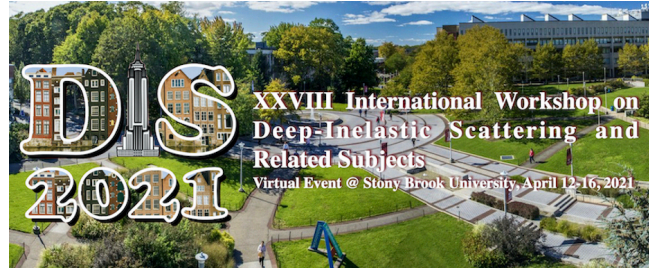


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Open strange meson K_1^\pm in hot and dense nuclear matter

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Using the unification of chiral SU(3) model and QCD sum rules, we deduce the in-medium properties of K_1^\pm meson. Within chiral SU(3) model, medium modified gluon and quark condensates are evaluated through their interactions with the scalar fields (σ , ζ , δ and χ). These condensates are further used as input in the Borel transformed equations of QCD sum rules to evaluate the in-medium mass of strange K_1^\pm meson. The in-medium property of above meson can be used to study the restoration of chiral symmetry in the nuclear matter.

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