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In medium partial decay width of \psi(4008) state decaying to $D\bar{D}$

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In the present investigation we use ${}^{3}P_{0}$ model to calculate the partial decay width of Y(4008) state decaying to $D\bar{D}$ pairs in hot and dense nuclear medium. The impact of nuclear density and temperature is inculcated through the mass modification of pseudoscalar D meson, calculated using chiral hadronic SU(3) plus QCD sum rule approach. The results of the present work will prove as one step forward in-order to predict an exact state of Y(4008) state.

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