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Study of the interactions of exotic state $Z_c(3900)$ in a hadronic medium

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Using effective Lagrangians, we study the interactions of the state $Z_c(3900)$ with light mesons. We determine the cross sections for the processes $Z_c\pi \rightarrow \bar{D}^{(*)}D^{(*)}$ and as well as the inverse processes. To understand the influence of the medium on the results, we determined the thermal average of the cross-sections.

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