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Mesons in medium (in Hadron-Nucleus reactions)

Wednesday 13 March 2024 10:30 (30 minutes)

Since dileptons can leave the dense phase of a reaction without distortion, their observation may allow us to observe in\,-\,medium effects on mesons produced in hadron induced reaction. The masses of the low lying charmonium states, the J/Ψ , $\Psi(3686)$, and $\Psi(3770)$ are shifted downwards due to the second order Stark effect. In hadron + \text{Au}collisionsat6-20 GeV westudy theirin - medium propagation. The time evolution of the spectral functions of medium mass shift can be observed in the dilepton spectrum, therefore, we may gain information about the magnitude of the gluon mediume f fecton \rhoand \omegamesons can be observed by study ing their interference contributing to the dilepton spectra indiff s induced reactions at 1-2 GeV pion beam energies. This may be observed in JPARC.

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Session Classification: Short talks