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Charmonium production in hadron-nucleus reactions

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We calculate the dilepton spectrum at the mass range of the low-lying charmonium states in \bar{p} , p and π Au collisions taking into account their in-medium propagation. The time evolution of the spectral functions of the charmonium state is studied with a BUU type transport model. We calculated the charmonium contribution to the dilepton spectrum and show that for $\Psi(3686)$ production there is a good chance to observe its in-medium modification with good resolution detectors. We, furthermore, show that by studying the excitation function of the charmonium state J/Ψ in $\bar{p}A$ collisions we may study the high momentum tail of the protons inside the nuclei.

Collaboration

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