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# Charmonium properties in hadron-nucleus reactions

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We study the excitation function of the low-lying charmonium states: J/Ψ, Ψ(3686) in p, π and $p^-$, 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. We study how the short range correlations in nuclei effect the excitation function of J/Ψ and show that for Ψ(3686) production there is a good chance to observe its in-medium modification with good resolution detectors. The energy regime will be available in JPARC, PANDA and CBM.

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