

Photoproduction of vector mesons with QGP effects

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In AA collisions, the strong electromagnetic fields from fast moving nucleus interact with the other nucleus, producing abundant charmonium (and dileptons) in the extremely low transverse momentum region $p_T < 0.1$ GeV/c which has also been measured in experiments at both LHC and RHIC energies. This results in significant enhancement of charmonium nuclear modification factor in semi-central and peripheral collisions. We present the detailed theoretical studies about photoproduction and hadroproduction. This photoproduction as an experimental observable can give additional constrain on the electromagnetic fields which is crucial for chiral magnetic topics.

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