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Suppression of heavy quarkonia in pA and AA collisions

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In this talk we present our results on production of heavy quarkonia in pA and AA collisions in the color dipole approach. We analyze dynamics of quarkonium inside nuclear matter, and assess nuclear suppression due to shadowing and absorption, as well as consider novel multinucleon production mechanism. The contribution of this new mechanism explains why the measured nuclear effects remain essentially unchanged within the energy range from RHIC to the LHC.

We demonstrate that the suggested approach can simultaneously explain a relatively small nuclear suppression of J/ψ and Υ production, as well as a strong suppression of $\psi(2S)$ observed at RHIC and LHC in proton-ion collisions.

Experimental Collaboration

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