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Nuclear Effects on Tetraquark Production by Double Parton Scattering

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Summary

In this work we study the nuclear effects in exotic meson production. We estimate the total cross section as a function of the center of mass energy for the pPb and pAu scattering using a version of the color evaporation model (CEM) adapted to Double Parton Scattering (DPS). We find that the cross section grows significantly with the atomic number, indicating that the hypothesis of tetraquark states can be tested in pA collisions at RHIC and LHC.

Primary author: Prof. CARVALHO, Fabiana (UNIFESP)

Co-author: Prof. NAVARRA, Fernando (IFUSP)

Presenter: Prof. CARVALHO, Fabiana (UNIFESP)

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