

a different perspective...

➔ Can we learn something on the medium produced in p-A collisions looking at a different (and hard) probe?

➔ suppression of loosely bound $\psi(2S)$ is stronger than the J/ψ one, both at RHIC and LHC in dA, pA

➔ unexpected since time spent by $c\bar{c}$ in the nucleus is shorter than charmonium formation time

➔ CNM as shadowing and energy loss, almost identical for J/ψ and $\psi(2S)$, do not account for the different suppression

➔ only models including already in pA QGP + hadron resonance gas or comovers describe the stronger $\psi(2S)$ suppression

