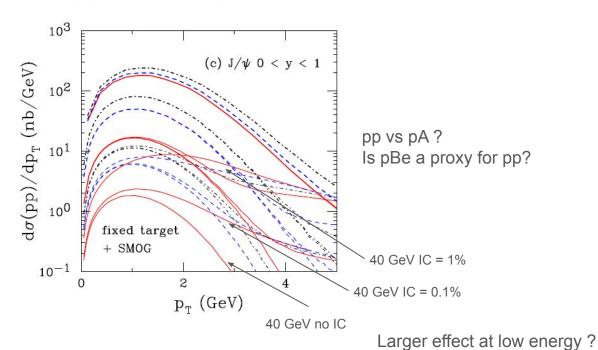
Intrinsic charm - prospects ?

SMOG: Gas jet target in LHCb, J/ψ and D^0 measured at backward rapidity in the fixed-target center of mass, data so far at: p + Ne at $\sqrt{s_{NN}} = 68.5$ GeV; p + He at $\sqrt{s_{NN}} = 86.6$ GeV; and p + Ar at $\sqrt{s_{NN}} = 110.4$ GeV

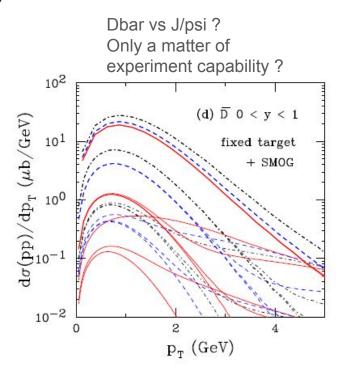
NA60+: proton beams at $p_{\text{lab}} = 40$, 80, and 120 GeV, nuclear targets from Be to Pb



How/can we prove/disprove IC?

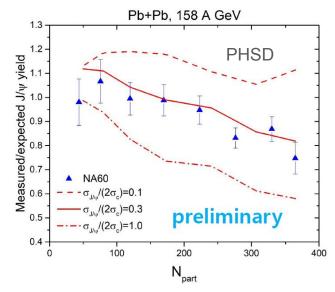
A background for "QCD" open

charm measurements?



Charmonia in NA60+/DiCE and CBM

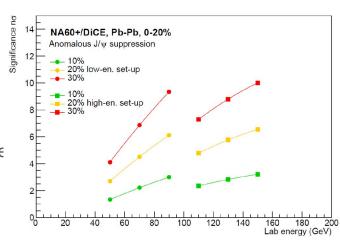
- \Box Can a **threshold** for hot matter effects be observed when lowering collision energy, possibly separately for χ_c and $\psi(2S)$ feed-down ?
- \square Are there specific μ_R -related effects, with a quark excess influencing the dissociation process ?
- \square Can comover vs QGP effects be separated when studying the \sqrt{s} -dependence of the suppression?
- ☐ Can we understand the mechanisms at play for **dissociation in CNM**?



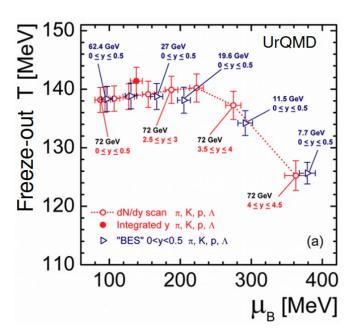
Can reliable estimates at lower collision energies be performed?

Treatment of CNM effects?

Will Fermi motion alter the picture at low energy?
Will extrapolation of CNM to A=1 work for RAA calculations?
Is RAA still the "good" quantity?



SMOG, between collider and SPS/FAIR



LHCb SMOG: -2.3< y< 0.7

Has/can this be worked out at SPS/FAIR energies, in spite of narrower acceptance?

