The impact of glasma on heavy quark spectra and correlations

 $\int \mathcal{D}\mathcal{A}$ vramescu

T. Lappi, H. Mäntysaari University of Jyväskylä D. Müller TU Wien V. Greco
University of Catania

Based on arXiv2409.???? and arXiv2409.????



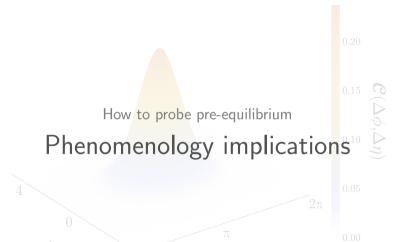






Outline



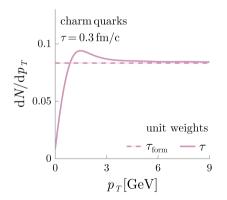


Effect of glasma on spectra



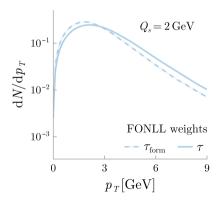
Effect of glasma

- ▶ Initial flat p_T distribution
- $ightharpoonup p_T$ migration from small to large p_T



Effect of initial spectrum

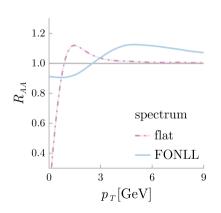
- Initial pQCD FONLL p_T spectrum
- More particles at intermediate p_T



Nuclear modification factor



Extraction of R_{AA} in glasma



R_{AA} in glasma

ightharpoonup "Ratio of AA to pp normalized spectra"

$$R_{AA}(\tau) = \frac{1}{A^2} \frac{\sigma_{\text{tot}}^{AA}}{\sigma_{\text{tot}}^{pp}} \frac{\frac{dN}{dp_T}(\tau; pp/AA)}{\frac{dN^{pp}}{dp_T}}$$