

# Saturation within the reach of the LHC: Incoherent $J/\psi$ production at large $|t|$

*Thursday 3 October 2024 16:40 (20 minutes)*

We identify a new way of pinpointing the presence of saturation effects in the LHC data by looking at incoherent  $J/\psi$  production at large  $|t|$ . We use an energy-dependent hotspot model to show that saturation effects are manifested through a fall-off of the incoherent vector meson production cross section. This fall-off comes from the reduced variance of possible target configurations due to parton overlap at Mandelstam- $t$  scales, where individual hotspots become important.

**Author:** MATAS, Marek (Czech Technical University)

**Presenter:** MATAS, Marek (Czech Technical University)