

Bjorken-x

 $10^{-2}$  $10^{-3}$  $10^{-4}$  $10^{-5}$  $\sigma(\gamma\text{Pb})$  (mb)

1

♦ ALICE data

— STARlight

— Impulse Approximation

— Hot-spot Model (PRC97 (2018) 024901)

— b-BK-A (PLB817(2021)136306)

— b-BK-GG (PLB817(2021)136306)

LHC18qr, Pb-Pb  $\sqrt{s_{\text{NN}}} = 5.02$  TeV $10^{-1}$  $10^{-2}$  $10^{-3}$ 

20

30

40

 $10^2$  $2 \times 10^2$  $W_{\gamma\text{Pb}}$  (GeV) $10^3$ 