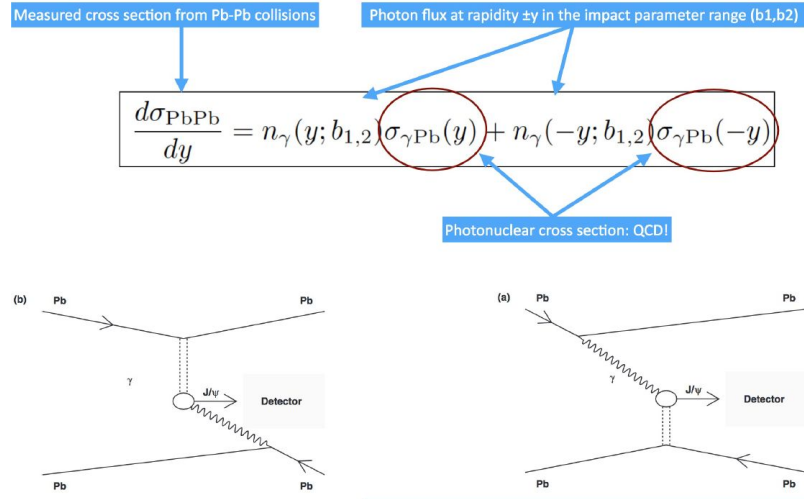# J/psi photoproduction in Pb-Pb collisions with nuclear overlap

- Time ordering of the hadronic and photoproduction interaction? Potential interaction with QGP possible?

- A tool to solve the photon emitter ambiguity?

- Hopes to study coherent production in pPb with nuclear overlap? Other vector mesons? K0s? K0s also in Pb-Pb?

- Modified photon flux how to properly compute it (over fixed area or b-dependent area?)?

Measured cross section from Pb-Pb collisions

Photon flux at rapidity ±y in the impact parameter range (b1,b2)

$$\frac{d\sigma_{\mathrm{PbPb}}}{dy} = n_\gamma(y; b_{1,2}) \sigma_{\gamma\mathrm{Pb}}(y) + n_\gamma(-y; b_{1,2}) \sigma_{\gamma\mathrm{Pb}}(-y)$$

Photonuclear cross section: QCD!

J/psi production in UPCs

- Include the UPC data into global fits of GPDs: what is missing?

- Roman pots: settings for (standard) data taking and usefulness for exclusive J/psi production, at low or high t? What about HL-LHC?