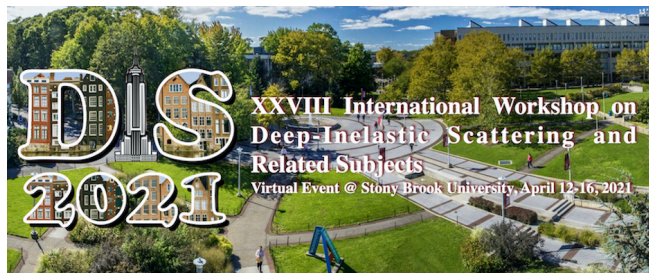


# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 630

Type: **Contributed Talk**

## ”Coherent photoproduction of $J/\psi$ in nucleus-nucleus collisions in the color dipole approach- an update.

*Thursday, 15 April 2021 08:36 (18 minutes)*

We investigate the exclusive photoproduction of  $J/\psi$  mesons in ultraperipheral heavy-ion collisions in the color dipole approach. We use the color dipole formulation of Glauber-Gribov theory to calculate the diffractive amplitude on the nuclear target. We compare our results to recent published data on exclusive  $J/\psi$  production in ultraperipheral lead-lead collisions at  $\sqrt{s_{NN}}=2.76$  and  $\sqrt{s_{NN}}=5.02$  TeV (ALICE data from 2019). We also work on the incorporation of gluon shadowing corrections through the inclusion of  $q\bar{q}g$ -Fock states. Such corrections appear to be necessary to describe the midrapidity ALICE data.

It is based on the paper “Coherent photoproduction of  $J/\psi$  in nucleus-nucleus collisions in the color dipole approach”, Agnieszka Łuszczak and Wolfgang Schäfer

Phys. Rev. C 99, 044905

**Primary author:** LUSZCZAK, Agnieszka (Cracow University of Technology)

**Presenter:** LUSZCZAK, Agnieszka (Cracow University of Technology)

**Session Classification:** Small-x, Diffraction and Vector Mesons

**Track Classification:** Small-x, Diffraction and Vector Mesons