

# UPC 2023: International workshop on the physics of Ultra Peripheral Collisions

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## Theory overview of vector meson photo production

*Monday, 11 December 2023 16:00 (30 minutes)*

I will review calculations of vector meson production in ultra peripheral collisions. I will focus on exclusive J/Psi and rho production at RHIC and LHC and address their potential to elucidate nuclear effects including gluon saturation, as well as nuclear structure, sub-nucleonic fluctuations, and entanglement driven interference effects. I will focus on dipole models and compare to calculations in other frameworks.

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**Session Classification:** Vector meson photoproduction

**Track Classification:** Session 1: Vector meson photoproduction