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Recent results from the STAR experiment on Vector Meson (VM) production in ultra peripheral AuAu collisions at RHIC.

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In this talk we shall present the measurements involving photonuclear production of vector meson (ρ , ω , J/ψ) and non-resonant pion pair in AuAu ultra peripheral collisions (UPC) at RHIC. Measurements of the relative amplitudes of the light vector mesons and direct pion pair components will be presented, along with the phase angle between the ρ and ω components. The negative of the four momentum transfer squared (t) spectrum shows coherent and incoherent components. The coherent component exhibits visible diffraction minima. Preliminary results for the cross section as a function J/ψ rapidity and transverse momentum will be presented and compared to models. Plans for the future will also be discussed.

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