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Photon-photon transition form factors of axial vector quarkonia in a light front approach

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We present a detailed study of transition form factors for axial-vector meson production via the two-photon fusion process $\gamma^* \gamma^* \rightarrow 1^{++}$, with space-like virtual photons in the initial state and a P -wave axial-vector quarkonium in the final state. In this analysis, we employ the formalism of light-front quarkonium wave functions obtained from a solution of the Schrödinger equation for a selection of interquark potentials for $Q\bar{Q}$ interaction.

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