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An amplitude analysis of $\psi(3686)$ radiative decays into the $\pi^0\pi^0$ system

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The search for glueballs – colorless bound states of gluons – is one of the most important tasks within the modern QCD. While parameters of glueballs are predicted under a wide range of models, their experimental observation is extremely difficult due to the mixing with the conventional mesons. Nevertheless, a lot of progress has been achieved in the last years. Glueballs are predicted to be abundantly produced in glue-rich processes, such as charmonia decays. In this talk we present results of amplitude analysis of $\psi(3686)$ radiative decays into the $\pi^0\pi^0$ system. The model-independent description allows to combine the obtained results with other related data in the development of phenomenological models.

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