

# The fully-heavy tetra-quark system interact via the Pomeron exchange

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The inner dynamics for the fully-heavy quark system is a hot topic. The LHCb Collaboration reported the observation of a tetra-quark candidate  $X(6900)$  with a configuration of  $cccc$  in the  $di-J/\psi$  invariant mass spectrum. We show that the narrow structure  $X(6900)$  can be produced via the Pomeron exchange and coupled-channel effects between the  $j\psi\bar{j}\psi$  and  $j\psi\bar{j}\psi(2S)$  scatterings.

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