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Role of the h1(1800) and f1(1285) states in the J/psi decays

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A state around 1800 MeV was generated from the interaction of the KstarKstar-bar within the local hidden gauge approach. We show that the peak observed in J/psi->eta Kstar Kstar-bar naturally comes from the creation of this h1 state. A second analysis, model independent, corroborates the first result, confirming the relationship of the enhancement in the invariant mass spectrum with the h1 resonance. On the other hand, we study the role of the f1(1285)resonance in the decays of J/psi->phi Kbar Kstar and J/psi->phi f1(1285). The theoretical approach is based on the results of chiral unitary theory where the f1(1285)resonance is dynamically generated from the Kbar Kstar interaction. The results can be tested in future experiments and therefore offer new clues on the nature of the f1(1285)state.

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