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Relativistic corrections to the Higgs boson decay into a pair of vector quarkonia

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Rare decay process of the Higgs boson into a pair of J/Ψ and a pair of Υ mesons is studied within perturbative Standard Model and relativistic quark model. Relativistic corrections to the production amplitudes, connected with the relative motion of heavy quarks, are calculated. Different decay mechanisms are studied. Numerical values of the decay widths of the Higgs boson are obtained, which can be used for comparison with experimental data.

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