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Nonleptonic decays of Y mesons

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Recently the number of experimentally observed Y mesons significantly increased. This opens the possibility to observe their weak decays. In this talk semi- and non-leptonic Y decays are studied within the framework of the relativistic quark model based on the quasipotential approach and quantum chromodynamics. The form factors are obtained and their dependence on the square of the transferred momentum is explicitly determined in the accessible kinematic range. On the basis of these form factors and factorization approximation, semi- and non-leptonic decay rates of the Y mesons are calculated. The detailed comparison with other theoretical results is given.

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