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Relativistic description of the weak decays of B_s mesons

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The branching fractions of the semileptonic and rare B_s decays are calculated in the framework of the QCD-motivated relativistic quark model. The form factors of the weak B_s transitions are expressed through the overlap integrals of the initial and final meson wave functions in the whole accessible kinematical range. The momentum transfer dependence of the form factors is explicitly determined without additional model assumptions and extrapolations. The obtained results agree well with available experimental data.

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