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Description of hadronic effects in weak decays of beauty mesons using covariant quark model

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Rare weak decays of heavy mesons, nowadays experimentally measured, allow for sensitive testing of the validity of the Standard Model. To achieve a reliable theoretical predictions, one needs, besides an appropriate description of the weak transition, to properly describe the hadronic effects. The covariant quark model with infrared confinement represents a suitable framework for such purpose. With hadronic effects taken into account using this model, I will present predictions for several observables for chosen B meson decays.

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