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$b \rightarrow s,d \nu \nu$ (experiment)

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We present the status of the experimental searches for flavour changing neutral current (FCNC) processes where a b hadron decays into light hadrons (X_d, X_s) and two neutrinos. Within the Standard Model, these processes are suppressed and rare, with branching fractions around $5 \cdot 10^{-6}$. Several New Physics models predict significant enhancements. Recent analyses by the Belle and BaBar collaborations have set several upper limits.

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