

Analysis of $B_s \rightarrow \phi\phi$ decay mode.

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An interesting decay mode of the B_s meson is into a ϕ pair: this is a vector-vector decay dominated by $b \rightarrow sss$ penguin transition which is a sensitive probe for possible new physics effects. The only existing sample of this mode was reconstructed by the CDF experiment from 0.2 fb⁻¹ of data, and consisted of only 8 signal events. Here we present new results based on a clean sample of about 300 $B_s \rightarrow \phi\phi$ decays reconstructed by the CDFII detector in a dataset with an integrated luminosity of about 3 fb⁻¹.

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