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Study of Bs \rightarrow Ds+(*) Ds-(*) and Bs \rightarrow phi phi Decays at CDF II

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Yet another interesting mode is the decay of the Bs into a phi 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 Bs \rightarrow phi phi decays reconstructed by the CDF II detector in a dataset with an integrated luminosity of about 3 fb-1.

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