

## Study of P-wave B0s states at the CMS experiment

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The observation of the  $B_{s2}(5840)0 \rightarrow B0 K0S$  decay and the evidence for the  $B_{s1}(5830)0 \rightarrow B0 K0S$  decay are presented. The analysis uses the data collected by the CMS experiment at the LHC in proton-proton collisions at  $\sqrt{s} = 8$  TeV. In addition, properties of the P-wave B0 s mesons are determined, as well as the mass differences  $M_{B0} - M_{B^+}$  and  $M_{B0} - M_{B^{*+}}$ , where the latter is measured for the first time.

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