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## Search for Light Higgs Bosons in $\Upsilon(1S)$ and $\Upsilon(2S)$ decays

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A light  $CP$ -odd Higgs boson ( $A^0$ ) is predicted in some extensions of the Standard Model; such a particle would be evident in decays of the  $\Upsilon(nS)$  resonance.

Using a data sample of 102 million  $\Upsilon(1S)$  events and 158 million  $\Upsilon(2S)$  events collected by the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider, we search for light Higgs boson decays  $A^0 \rightarrow \tau^+\tau^-$  and  $A^0 \rightarrow \mu^+\mu^-$  in the processes  $\Upsilon(1S) \rightarrow \gamma A^0$  and  $\Upsilon(2S) \rightarrow \gamma A^0$ .

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