

# $\eta_b(1S)$

$$I^G(J^{PC}) = 0^+(0^{-+})$$

OMITTED FROM SUMMARY TABLE

Quantum numbers shown are quark-model predictions. One event is observed with the expected background of one. Needs confirmation.

## $\eta_b(1S)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
9300 ± 20 ± 20	HEISTER	02D ALEP	181–209 $e^+ e^-$

## $\eta_b(1S)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $3h^+ 3h^-$	seen
$\Gamma_2$ $2h^+ 2h^-$	not seen
$\Gamma_3$ $\gamma\gamma$	seen

## $\eta_b(1S)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$$\Gamma(3h^+ 3h^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}} \qquad \Gamma_1\Gamma_3/\Gamma$$

<u>VALUE (eV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<132	95	HEISTER	02D ALEP	181–209 $e^+ e^-$

$$\Gamma(2h^+ 2h^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}} \qquad \Gamma_2\Gamma_3/\Gamma$$

<u>VALUE (eV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<48	95	HEISTER	02D ALEP	181–209 $e^+ e^-$

## $\eta_b(1S)$ REFERENCES

HEISTER    02D    PL B530 56    A. Heister *et al.*    (ALEPH Collab.)