

$\eta_b(1S)$

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

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>
9300 ± 20 ± 20	HEISTER	02D ALEP	181-209 $e^+ e^-$

$\eta_b(1S)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $3h^+ 3h^-$	seen
Γ_2 $2h^+ 2h^-$	not seen
Γ_3 $4h^+ 4h^-$	
Γ_4 $\gamma\gamma$	seen

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

$$\Gamma(3h^+ 3h^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}} \qquad \Gamma_1\Gamma_4/\Gamma$$

<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. ● ● ●				
<470	95	ABDALLAH	06 DLPH	161-209 $e^+ e^-$
<132	95	HEISTER	02D ALEP	181-209 $e^+ e^-$

$$\Gamma(2h^+ 2h^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}} \qquad \Gamma_2\Gamma_4/\Gamma$$

<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. ● ● ●				
<190	95	ABDALLAH	06 DLPH	161-209 $e^+ e^-$
< 48	95	HEISTER	02D ALEP	181-209 $e^+ e^-$

$$\Gamma(4h^+ 4h^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}} \qquad \Gamma_3\Gamma_4/\Gamma$$

<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. ● ● ●				
<660	95	ABDALLAH	06 DLPH	161-209 $e^+ e^-$

$\eta_b(1S)$ REFERENCES

ABDALLAH	06	PL B634 340	J.M. Abdallah <i>et al.</i>	(DELPHI Collab.)
HEISTER	02D	PL B530 56	A. Heister <i>et al.</i>	(ALEPH Collab.)