Citation: K. Hagiwara *et al.* (Particle Data Group), Phys. Rev. D **66**, 010001 (2002) and 2003 partial update for edition 2004 (URL: http://pdg.lbl.gov)

$\eta_b(1S)$

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

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

VALUE (MeV)	*DOCUMENT ID*	*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •			
$9300 \pm 20 \pm 20$	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	$\gamma\gamma$	seen

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

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

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

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

VALUE (eV)	*CL%*	*DOCUMENT ID*	*TECN*	*COMMENT*
• • • 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.)