

X(1835)

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

OMITTED FROM SUMMARY TABLE

Needs confirmation. Seen by BAI 03F and ABLIKIM 05R in radiative decays of the J/ψ . Evidence for a threshold enhancement in the $p\bar{p}$ mass spectrum was also reported by ABE 02K and WANG 05A in $B^+ \rightarrow p\bar{p}K^+$, WANG 05A in $B^0 \rightarrow p\bar{p}K_S^0$, and ABE 02W in $\bar{B}^0 \rightarrow D^0 p\bar{p}$ decays.

X(1835) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1833.7 ± 6.1 ± 2.7	264	ABLIKIM	05R BES2	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1831 ± 7		¹ ABLIKIM	05R BES2	$J/\psi \rightarrow \gamma p\bar{p}$
¹ From the fit including final state interaction effects in isospin 0 <i>S</i> -wave according to SIBIRTSEV 05A. Systematic errors not estimated.				

X(1835) WIDTH

VALUE (MeV)	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
67.7 ± 20.3 ± 7.7		264	ABLIKIM	05R BES2	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
<153	90		² ABLIKIM	05R BES2	$J/\psi \rightarrow \gamma p\bar{p}$
² From the fit including final state interaction effects in isospin 0 <i>S</i> -wave according to SIBIRTSEV 05A. Systematic errors not estimated.					

 $\phi_3(1850)$ X(1835) DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $p\bar{p}$	seen
Γ_2 $\pi^+ \pi^- \eta'$	seen

X(1835) BRANCHING RATIOS

$\Gamma(p\bar{p})/\Gamma(\pi^+ \pi^- \eta')$	Γ_1/Γ_2		
VALUE	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
0.333	ABLIKIM	05R BES2	$J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$

X(1835) REFERENCES

ABLIKIM	05R	PRL 95 262001	M. Ablikim <i>et al.</i>	(BES Collab.)
SIBIRTSEV	05A	PR D71 054010	A. Sibirtsev, J. Haidenbauer	
WANG	05A	PL B617 141	M.-Z. Wang <i>et al.</i>	(BELLE Collab.)
BAI	03F	PRL 91 022001	J.Z. Bai <i>et al.</i>	(BES Collab.)
ABE	02K	PRL 88 181803	K. Abe <i>et al.</i>	(BELLE Collab.)
ABE	02W	PRL 89 151802	K. Abe <i>et al.</i>	(BELLE Collab.)

OTHER RELATED PAPERS

HUANG	06A	PRL 96 032003	G.S. Huang <i>et al.</i>	(CLEO Collab.)
KOCHELEV	06	PL B633 283	N. Kochelev, D.-P. Min	(SEOUL, JINR)
KOCHELEV	05	PR D72 097502	N. Kochelev, D.-P. Min	(SEOUL, JINR)
LOISEAU	05	PR C72 011001	B. Loiseau, S. Wycech	(CURCP, WINR)
BUGG	04A	EPJ C36 161	D.V. Bugg	
BUGG	04B	PL B598 8	D.V. Bugg	
GAO	04	CTP 42 844	G.-S. Gao, S.-L. Zhu	
KERBIKOV	04	PR C69 055205	B. Kerbikov <i>et al.</i>	
ZOU	04	PR D69 034004	B.S. Zou, H.C. Chiang	
DATTA	03B	PL B567 273	A. Datta, P.J. O'Donnell	
