NODE=M085

X(1835)

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

OMITTED FROM SUMMARY TABLE

Could be a superposition of two states, one appearing as threshold enhancement in $p\overline{p}$ the other one with a lower mass at 1835 MeV. Coupled-channel analyses with more sophisticated model are needed.

NODE=M085

X(1835) MASS

NODE=M085M

NODE=M085M

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT	
$1834.0^{+4.0}_{-3.0}$ OUR AVERAGE		Error includes scale factor of 1.2. [$1831.8^{+4.0}_{-2.6}$ MeV OUR 2025 AVERAGE]			NEW
$1849.3 \pm 3.0^{+7.6}_{-10.0}$		[1] ABLIKIM	25P	BES3	$J/\psi \to \gamma\gamma\phi$
$1832.5 \pm 3.1 \pm 2.5$	21k	[2] ABLIKIM	24B	BES3	$J/\psi \to \gamma 3(\pi^+\pi^-)$
$1825.3 \pm 2.4^{+17.3}_{-2.4}$		[3] ABLIKIM	16J	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$
$1844 \pm 9^{+16}_{-25}$		[4] ABLIKIM	15T	BES3	$J/\psi \to \gamma K^0_S K^0_S \eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$1818 \pm 9 \pm 2.5$	37k	[5] ABLIKIM	24B	BES3	$J/\psi \to \gamma 3(\pi^+\pi^-)$
$1839 \pm 26 \pm 26$		[6] ABLIKIM	18I	BES3	$J/\psi \to \gamma\gamma\phi(1020)$
$1909.5 \pm 15.9^{+9.4}_{-27.5}$		[7] ABLIKIM	16J	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$
$1842.2 \pm 4.2^{+7.1}_{-2.6}$	0.6k	[8] ABLIKIM	13U	BES3	$J/\psi \to \gamma 3(\pi^+\pi^-)$
$1832^{+19}_{-5} \pm 26$		[9] ABLIKIM	12D	BES3	$J/\psi \to \gamma p\overline{p}$
$1836.5 \pm 3.0^{+5.6}_{-2.1}$	4265	[10] ABLIKIM	11C	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$
$1877.3 \pm 6.3^{+3.4}_{-7.4}$		[11] ABLIKIM	11J	BES3	$J/\psi \to \omega(\eta\pi^+\pi^-)$
$1837^{+10}_{-12}{}^{+9}_{-7}$	231	[12,13] ALEXANDER	10	CLEO	$J/\psi \to \gamma p\overline{p}$
$1833.7 \pm 6.1 \pm 2.7$	264	ABLIKIM	05R	BES2	$J/\psi \to \gamma\pi^+\pi^-\eta'$
1831 ± 7		[13,14] ABLIKIM	05R	BES2	$J/\psi \to \gamma p\overline{p}$
$1859^{+3}_{-10}{}^{+5}_{-25}$		[13] BAI	03F	BES2	$J/\psi \to \gamma p\overline{p}$

OCCUR=2 OCCUR=2 OCCUR=2

[1] From a partial wave analysis of $J/\psi \to \gamma\gamma\phi$ with significance 15.3σ. $J^{PC} = 0^{-+}$ established at 13.2σ. NODE=M085M;LINKAGE=H

[2] From a fit of the measured $3(\pi^+\pi^-)$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold through interference with a second previously unseen narrow resonance near 1880 MeV. The fit uses Breit-Wigner functions for the signal shapes and includes known background contributions. A second solution of the fit gives 37k events. NODE=M085M;LINKAGE=E

[3] From a fit of the measured $\pi^+\pi^-\eta'$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold through interference with a second previously unseen narrow resonance near 1870 MeV. The fit uses Breit-Wigner functions for the signal shapes and includes known backgrounds and contributors. NODE=M085M;LINKAGE=B

[4] Decay dominated by $f_0(980)\eta$ hence $I^G(J^{PC}) = 0^+(0^{-+})$. NODE=M085M;LINKAGE=D

[5] From a fit of the measured $3(\pi^+\pi^-)$ lineshape to a Flatte formula that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold. The fit also includes known background contributions. NODE=M085M;LINKAGE=G

[6] From a fit to $\gamma\phi$ invariant mass. Angular analysis consistent with $J^{PC} = 0^{-+}$. Other J^{PC} not excluded. Superseded by ABLIKIM 25P. NODE=M085M;LINKAGE=C

[7] Pole mass from a fit of the measured $\pi^+\pi^-\eta'$ lineshape to a Flatte formula that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold; the fit also includes known backgrounds and contributors, as well as an *ad hoc* Breit-Wigner function (M $\approx$ 1919 MeV; $\Gamma \approx$ 51 MeV) that is required for a good fit. NODE=M085M;LINKAGE=A

[8] Superseded by ABLIKIM 24B. NODE=M085M;LINKAGE=F

[9] From the fit including final state interaction effects in isospin 0 *S*-wave according to SIBIRTSEV 05A. Supersedes ABLIKIM 10G. NODE=M085M;LINKAGE=AK

[10] From a fit of the $\pi^+\pi^-\eta'$ mass distribution to a combination of $\gamma f_1(1510)$, $\gamma X(1835)$, and two states $\gamma X(2120)$ and $\gamma\eta(2370)$, for $M(\pi^+\pi^-\eta') < 2.8$ GeV,and accounting for backgrounds from non-η' events and $J/\psi \to \pi^0\pi^+\pi^-\eta'$. NODE=M085M;LINKAGE=AI

[11] The selected process is $J/\psi \to \omega a_0(980)\pi$ with B($J/\psi \to \omega X \to \omega a_0(980)^\pm (\to \eta\pi^\pm)\pi^\mp) = (1.50 \pm 0.26^{+0.72}_{-0.36}) \times 10^{-4}$. Not seen in $J/\psi(1S) \to \omega K^+K^-\eta$ by ABLIKIM 24BQ with 90% CL upper limit of 9.55×10^{-7}. This state may be also due to $\eta_2(1870)$ or to a combination of $X(1835)$ and $\eta_2(1870)$. NODE=M085M;LINKAGE=BL

[12] From a fit of the $p\overline{p}$ mass distribution to a combination of $\gamma X(1835)$, γR with $M(R)$ = 2100 MeV and $\Gamma(R)$ = 160 MeV, and $\gamma p\overline{p}$ phase space, for $M(p\overline{p}) < 2.85$ GeV. NODE=M085M;LINKAGE=AE

[13] Evidence for a threshold enhancement in the $p\overline{p}$ mass spectrum was also reported by ABE 02K, AUBERT,B 05L, and WANG 05A in $B^+ \rightarrow p\overline{p}K^+$, WANG 05A in $B^0 \rightarrow p\overline{p}K^0_S$, ABE 02W in $\overline{B}^0 \rightarrow p\overline{p}D^0$, DEL-AMO-SANCHEZ 12 in $B \rightarrow D(D^*)p\overline{p}(\pi)$, and WEI 08 in $B^+ \rightarrow p\overline{p}\pi^+$ decays. Not seen by ATHAR 06 in $\Upsilon(1S) \rightarrow p\overline{p}\gamma$. NODE=M085M;LINKAGE=HF

[14] From the fit including final state interaction effects in isospin 0 S-wave according to SIBIRTSEV 05A. Systematic errors not estimated. NODE=M085M;LINKAGE=AB

$X(1835)$ WIDTH

NODE=M085W

NODE=M085W

130 ±50 OUR AVERAGE Error includes scale factor of 6.4. See the ideogram below. NEW
[120 ± 70 MeV OUR 2025 AVERAGE Scale factor = 8.8]

VALUE (MeV)	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
$179.6 \pm 8.7^{+22.5}_{-27.9}$			[1] ABLIKIM	25P	BES3	$J/\psi \rightarrow \gamma\gamma\phi$
$80.7 \pm 5.2 \pm 7.7$		21k	[2] ABLIKIM	24B	BES3	$J/\psi \rightarrow \gamma 3(\pi^+\pi^-)$
$245.2 \pm 13.1^{+4.6}_{-9.6}$			[3] ABLIKIM	16J	BES3	$J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$
$192\ ^{+20}_{-17}\ ^{+62}_{-43}$			[4] ABLIKIM	15T	BES3	$J/\psi \rightarrow \gamma K^0_S K^0_S \eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$175 \pm 57 \pm 25$			[5] ABLIKIM	18I	BES3	$J/\psi \rightarrow \gamma\gamma\phi(1020)$
$273.5 \pm 21.4^{+6.1}_{-64.0}$			[6] ABLIKIM	16J	BES3	$J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$
$83 \pm 14 \pm 11$		0.6k	[7] ABLIKIM	13U	BES3	$J/\psi \rightarrow \gamma 3(\pi^+\pi^-)$
< 76	90		[8] ABLIKIM	12D	BES3	$J/\psi \rightarrow \gamma p\overline{p}$
$190 \pm 9\ ^{+38}_{-36}$		4265	[9] ABLIKIM	11C	BES3	$J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$
$57 \pm 12\ ^{+19}_{-4}$			[10] ABLIKIM	11J	BES3	$J/\psi \rightarrow \omega(\eta\pi^+\pi^-)$
$0\ ^{+44}_{-0}$		231	[11,12] ALEXANDER	10	CLEO	$J/\psi \rightarrow \gamma p\overline{p}$
$67.7 \pm 20.3 \pm 7.7$		264	ABLIKIM	05R	BES2	$J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$
< 153	90		[12,13] ABLIKIM	05R	BES2	$J/\psi \rightarrow \gamma p\overline{p}$
< 30			[12] BAI	03F	BES2	$J/\psi \rightarrow \gamma p\overline{p}$

OCCUR=2 (16J); OCCUR=2 (05R)

[1] From a partial wave analysis of $J/\psi \rightarrow \gamma\gamma\phi$ with significance 15.3σ. $J^{PC} = 0^{-+}$ established at 13.2σ. NODE=M085W;LINKAGE=G

[2] From a fit of the measured $3(\pi^+\pi^-)$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold through interference with a second previously unseen narrow resonance near 1880 MeV. The fit uses Breit-Wigner functions for the signal shapes and includes known background contributions. A second solution of the fit gives 37k events. NODE=M085W;LINKAGE=E

[3] From a fit of the measured $\pi^+\pi^-\eta'$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold through interference with a second previously unseen narrow resonance near 1870 MeV. The fit uses Breit-Wigner functions for the signal shapes and includes known backgrounds and contributors. NODE=M085W;LINKAGE=B

[4] Decay dominated by $f_0(980)\eta$ hence $I^G(J^{PC}) = 0^+(0^{-+})$. NODE=M085W;LINKAGE=D

[5] From a fit to $\gamma\phi$ invariant mass. Angular analysis consistent with $J^{PC} = 0^{-+}$. Other J^{PC} not excluded. Superseded by ABLIKIM 25P. NODE=M085W;LINKAGE=C

[6] Pole width from a fit of the measured $\pi^+\pi^-\eta'$ lineshape to a Flatte formula that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold; the fit also includes known backgrounds and contributors, as well as an *ad hoc* Breit-Wigner function (M ≈ 1919 MeV; Γ ≈ 51 MeV) that is required for a good fit. NODE=M085W;LINKAGE=A

[7] Superseded by ABLIKIM 24B. NODE=M085W;LINKAGE=F

[8] From the fit including final state interaction effects in isospin 0 S-wave according to SIBIRTSEV 05A. Supersedes ABLIKIM 10G. NODE=M085W;LINKAGE=AK

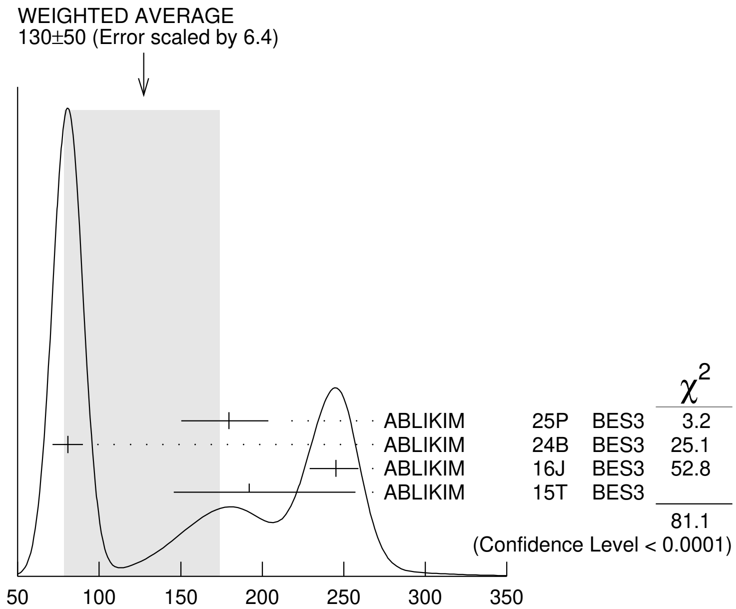
[9] From a fit of the $\pi^+\pi^-\eta'$ mass distribution to a combination of $\gamma f_1(1510)$, $\gamma X(1835)$, and two states $\gamma X(2120)$ and $\gamma\eta(2370)$, for $M(\pi^+\pi^-\eta') < 2.8$ GeV,and accounting for backgrounds from non-η' events and $J/\psi \rightarrow \pi^0\pi^+\pi^-\eta'$. NODE=M085W;LINKAGE=AI

[10] The selected process is $J/\psi \rightarrow \omega a_0(980)\pi$ with B($J/\psi \rightarrow \omega X \rightarrow \omega a_0(980)^\pm(\rightarrow \eta\pi^\pm)\pi^\mp) = (1.50 \pm 0.26^{+0.72}_{-0.36}) \times 10^{-4}$. Not seen in $J/\psi(1S) \rightarrow \omega K^+K^-\eta$ by ABLIKIM 24BQ with 90% CL upper limit of 9.55×10^{-7}. This state may be also due to $\eta_2(1870)$ or to a combination of $X(1835)$ and $\eta_2(1870)$. NODE=M085W;LINKAGE=BL

[11] From a fit of the $p\overline{p}$ mass distribution to a combination of $\gamma X(1835)$, γR with $M(R)$ = 2100 MeV and $\Gamma(R)$ = 160 MeV, and $\gamma p\overline{p}$ phase space, for $M(p\overline{p}) < 2.85$ GeV. NODE=M085W;LINKAGE=AE

[12] Evidence for a threshold enhancement in the $p\overline{p}$ mass spectrum was also reported by ABE 02K, AUBERT,B 05L, and WANG 05A in $B^+ \rightarrow p\overline{p}K^+$, WANG 05A in $B^0 \rightarrow p\overline{p}K^0_S$, ABE 02W in $\overline{B}^0 \rightarrow p\overline{p}D^0$, DEL-AMO-SANCHEZ 12 in $B \rightarrow D(D^*)p\overline{p}(\pi)$, and WEI 08 in $B^+ \rightarrow p\overline{p}\pi^+$ decays. Not seen by ATHAR 06 in $\Upsilon(1S) \rightarrow p\overline{p}\gamma$. NODE=M085W;LINKAGE=HF

[13] From the fit including final state interaction effects in isospin 0 S-wave according to SIBIRTSEV 05A. Systematic errors not estimated. NODE=M085W;LINKAGE=AB



$X(1835)$ WIDTH (MeV)

$X(1835)$ DECAY MODES

NODE=M085215;NODE=M085

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$p\overline{p}$	seen	DESIG=1;OUR EVAL;→ UNCHECKED ←
Γ_2	$\eta'\pi^+\pi^-$	seen	DESIG=2
Γ_3	$\gamma\gamma$	not seen	DESIG=4;OUR EST;→ UNCHECKED ←
Γ_4	$K^0_S K^0_S \eta$	seen	DESIG=5;OUR EVAL;→ UNCHECKED ←
Γ_5	$\gamma\phi(1020)$	seen	DESIG=6
Γ_6	$3(\pi^+\pi^-)$	seen	DESIG=7

$X(1835)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

NODE=M085225

$\Gamma(\eta'\pi^+\pi^-) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ $\Gamma_2\Gamma_3/\Gamma$

NODE=M085G01
NODE=M085G01

• • • We do not use the following data for averages, fits, limits, etc. • • •

VALUE (eV)	CL%	DOCUMENT ID		TECN	COMMENT	
<35.6	90	[1] ZHANG	12A	BELL	$e^+e^- \rightarrow e^+e^-\eta'\pi^+\pi^-$	
<83	90	[2] ZHANG	12A	BELL	$e^+e^- \rightarrow e^+e^-\eta'\pi^+\pi^-$	OCCUR=2

[1] From a two-resonance fit and constructive interference of the $\eta(1760)$ and $X(1835)$, a significance of 2.8 σ. NODE=M085G01;LINKAGE=ZH

[2] From a two-resonance fit and destructive interference of the $\eta(1760)$ and $X(1835)$, a significance of 2.8 σ. NODE=M085G01;LINKAGE=ZA

$X(1835)$ BRANCHING RATIOS

NODE=M085220

$\Gamma(p\overline{p})/\Gamma(\eta'\pi^+\pi^-)$ Γ_1/Γ_2

NODE=M085R01
NODE=M085R01

• • • We do not use the following data for averages, fits, limits, etc. • • •

VALUE	DOCUMENT ID		TECN	COMMENT
0.333	ABLIKIM	05R	BES2	$J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$

$\Gamma(\eta'\pi^+\pi^-)/\Gamma(K^0_S K^0_S \eta)$ Γ_2/Γ_4

NODE=M085R00
NODE=M085R00

• • • We do not use the following data for averages, fits, limits, etc. • • •

VALUE	DOCUMENT ID		TECN	COMMENT
6.7 ± 1.8	[1] ABLIKIM	15T	BES3	$J/\psi \rightarrow \gamma K^0_S K^0_S \eta$

[1] Using resutls from ABLIKIM 05R. NODE=M085R00;LINKAGE=A

$\Gamma(\eta' \pi^+ \pi^-)/\Gamma_{total}$ Γ_2/Γ

NODE=M085R03
NODE=M085R03

VALUE	DOCUMENT ID		TECN	COMMENT
seen	[1] ABLIKIM	16J	BES3	$J/\psi \to \gamma \pi^+ \pi^- \eta'$

[1] ABLIKIM 16J quotes B($J/\psi \to \gamma X(1835)$) × B($X(1835) \to \pi^+ \pi^- \eta'$) = $(3.93 \pm 0.38^{+0.31}_{-0.84}) \times 10^{-4}$ from a fit of the measured $\pi^+ \pi^- \eta'$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold with a Flatte formula in addition to known backgrounds and contributors, as well as an *ad hoc* Breit-Wigner (M ≈ 1919 MeV; Γ ≈ 51 MeV) that is required for a good fit. Another explanation for the distortion provided by ABLIKIM 16J is that a second resonance near 1870 MeV interferes with the $X(1835)$; fits to this possibility yield product branching fraction values compatible with that shown within the respective systematic uncertainties.

NODE=M085R03;LINKAGE=A

$\Gamma(\gamma \phi(1020))/\Gamma_{total}$ Γ_5/Γ

NODE=M085R04
NODE=M085R04

VALUE	DOCUMENT ID		TECN	COMMENT
seen [possibly seen OUR 2025 BEST LIMIT]				
seen	[1] ABLIKIM	25P	BES3	$J/\psi \to \gamma \gamma \phi$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
possibly seen	[2] ABLIKIM	18I	BES3	$J/\psi \to \gamma \gamma \phi(1020)$

[1] From a partial wave analysis of $J/\psi \to \gamma \gamma \phi$ with significance 15.3σ. $J^{PC} = 0^{-+}$ established at 13.2σ.

NODE=M085R04;LINKAGE=B

[2] Seen as a peak in $\gamma \phi$ invariant mass. Angular analysis consistent with $J^{PC} = 0^{-+}$. Other J^{PC} not excluded. Superseded by ABLIKIM 25P.

NODE=M085R04;LINKAGE=A

$\Gamma(\gamma\gamma)/\Gamma(\eta' \pi^+ \pi^-)$ Γ_3/Γ_2

NODE=M085R05
NODE=M085R05

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.80 \times 10^{-3}$	90	[1] ABLIKIM	18O	BES3	$\psi(2S) \to \pi^+ \pi^- \gamma\gamma\gamma$

[1] Using results from ABLIKIM 16J.

NODE=M085R05;LINKAGE=A

$\Gamma(3(\pi^+ \pi^-))/\Gamma_{total}$ Γ_6/Γ

NODE=M085R06
NODE=M085R06

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
seen	21k	[1] ABLIKIM	24B	BES3	$J/\psi \to \gamma 3(\pi^+ \pi^-)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
seen	0.6k	[2] ABLIKIM	13U	BES3	$J/\psi \to \gamma 3(\pi^+ \pi^-)$

[1] ABLIKIM 24B quotes B($J/\psi \to \gamma X(1835)$) × B($X(1835) \to 3(\pi^+ \pi^-)$) = $(1.19 \pm 0.30 \pm 0.15) \times 10^{-5}$ for constructive interference and $(2.07 \pm 0.50 \pm 0.36) \times 10^{-5}$ for destructive interference from a fit of the measured $3(\pi^+ \pi^-)$ lineshape that accounts for the abrupt distortion observed at the $p\overline{p}$ threshold through interference with a second narrow resonance near 1880 MeV. The solution for destructive interference gives 37k events.

NODE=M085R06;LINKAGE=A

[2] Superseded by ABLIKIM 24B.

NODE=M085R06;LINKAGE=B

$X(1835)$ REFERENCES

NODE=M085

ABLIKIM	25P	PR D111 052011	M. Ablikim *et al.*	(BESIII Collab.)	REFID=63260
ABLIKIM	24B	PRL 132 151901	M. Ablikim *et al.*	(BESIII Collab.)	REFID=62651
ABLIKIM	24BQ	PR D110 052005	M. Ablikim *et al.*	(BESIII Collab.)	REFID=63020
ABLIKIM	18I	PR D97 051101	M. Ablikim *et al.*	(BESIII Collab.)	REFID=58893
ABLIKIM	18O	PR D97 072014	M. Ablikim *et al.*	(BESIII Collab.)	REFID=58925
ABLIKIM	16J	PRL 117 042002	M. Ablikim *et al.*	(BESIII Collab.)	REFID=57454
ABLIKIM	15T	PRL 115 091803	M. Ablikim *et al.*	(BESIII Collab.)	REFID=56785
ABLIKIM	13U	PR D88 091502	M. Ablikim *et al.*	(BESIII Collab.)	REFID=55582
ABLIKIM	12D	PRL 108 112003	M. Ablikim *et al.*	(BESIII Collab.) JPC	REFID=54269
DEL-AMO-SA...	12	PR D85 092017	P. del Amo Sanchez *et al.*	(BABAR Collab.)	REFID=54286
ZHANG	12A	PR D86 052002	C.C. Zhang *et al.*	(BELLE Collab.)	REFID=54763
ABLIKIM	11C	PRL 106 072002	M. Ablikim *et al.*	(BESIII Collab.)	REFID=53684
ABLIKIM	11J	PRL 107 182001	M. Ablikim *et al.*	(BESIII Collab.)	REFID=53931
ABLIKIM	10G	CP C34 421	M. Ablikim *et al.*	(BESIII Collab.)	REFID=55685
ALEXANDER	10	PR D82 092002	J.P. Alexander *et al.*	(CLEO Collab.)	REFID=53525
WEI	08	PL B659 80	J.-T. Wei *et al.*	(BELLE Collab.)	REFID=52086
ATHAR	06	PR D73 032001	S.B. Athar *et al.*	(CLEO Collab.)	REFID=50993
ABLIKIM	05R	PRL 95 262001	M. Ablikim *et al.*	(BES Collab.)	REFID=50985
AUBERT,B	05L	PR D72 051101	B. Aubert *et al.*	(BABAR Collab.)	REFID=50827
SIBIRTSEV	05A	PR D71 054010	A. Sibirtsev, J. Haidenbauer		REFID=51038
WANG	05A	PL B617 141	M.-Z. Wang *et al.*	(BELLE Collab.)	REFID=50651
BAI	03F	PRL 91 022001	J.Z. Bai *et al.*	(BES II Collab.)	REFID=49473
ABE	02K	PRL 88 181803	K. Abe *et al.*	(BELLE Collab.)	REFID=48690
ABE	02W	PRL 89 151802	K. Abe *et al.*	(BELLE Collab.)	REFID=48980