

NODE=M067

 $\phi(1680)$ $I^G(J^{PC}) = 0^-(1^- -)$ **$\phi(1680)$ MASS** **e^+e^- PRODUCTION**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1680 ± 20 OUR ESTIMATE				
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1663 ± 5 \pm^{16}_4		ABLIKIM	24CB BES3	$J/\psi \rightarrow \phi \eta \pi^0$
1656.8 ± 4.9		1 LICHARD	23 RVUE	$e^+e^- \rightarrow \gamma(nS) \rightarrow \phi \eta \gamma$
1683 ± 7 ± 9		2 ZHU	23 BELL	$e^+e^- \rightarrow \gamma(nS) \rightarrow \phi \eta \gamma$
1678 ± 5 ± 7		3 ZHU	23A RVUE	$e^+e^- \rightarrow \eta \phi$
1673 ± 5		4 ABLIKIM	22L BES3	$2.0-3.08 e^+e^- \rightarrow K^+K^-\pi^0$
1680 \pm^{12}_{13} ± 21 1.8k		5 ABLIKIM	20F BES3	$\psi(2S) \rightarrow K^+K^-\eta$
1662 ± 20		6 ACHASOV	20C SND	$1.3-2.0 e^+e^- \rightarrow K^+K^-\pi^0$
1641 \pm^{24}_{18}		ACHASOV	19 SND	$e^+e^- \rightarrow \pi^+\pi^-\pi^0\eta$
1667 ± 5 ± 11 3k		7 IVANOV	19A CMD3	$1.59-2.007 e^+e^- \rightarrow K^+K^-\eta$
1700 ± 23 2k		8 ACHASOV	18A SND	$1.3-2.0 e^+e^- \rightarrow K_S^0 K_L^0 \pi^0$
1674 ± 12 ± 6 6.2k		9 LEES	14H BABR	$e^+e^- \rightarrow K_S^0 K_L^0 \gamma$
1733 ± 10 ± 10		10 LEES	12F BABR	$10.6 e^+e^- \rightarrow \phi \pi^+\pi^-\gamma$
1689 ± 7 ± 10 4.8k		11 SHEN	09 BELL	$10.6 e^+e^- \rightarrow K^+K^-\pi^+\pi^-\gamma$
1709 ± 20 ± 43		12 AUBERT	08S BABR	$10.6 e^+e^- \rightarrow \text{hadrons}$
1623 ± 20 948		13 AKHMETSHIN 03	CMD2	$1.05-1.38 e^+e^- \rightarrow K_L^0 K_S^0$
~ 1500		14 ACHASOV	98H RVUE	$e^+e^- \rightarrow \pi^+\pi^-\pi^0, \omega\pi^+\pi^-, K^+K^-$
~ 1900		15 ACHASOV	98H RVUE	$e^+e^- \rightarrow K_S^0 K^\pm \pi^\mp$
1700 ± 20		16 CLEGG	94 RVUE	$e^+e^- \rightarrow K^+K^-, K_S^0 K\pi$
1657 ± 27 367		17 BISELLO	91C DM2	$e^+e^- \rightarrow K_S^0 K^\pm \pi^\mp$
1655 ± 17		18 BISELLO	88B DM2	$e^+e^- \rightarrow K^+K^-$
1680 ± 10		19 BUON	82 DM1	$e^+e^- \rightarrow \text{hadrons}$
1677 ± 12		MANE	82 DM1	$e^+e^- \rightarrow K_S^0 K\pi$

- 1 From a VDM fit to ZHU 23 $\eta\phi\gamma$ data with two resonances, $\phi(1680)$, $\phi(2170)$, and a third resonance with mass 1850.7 ± 5.3 MeV and width 25 ± 35 MeV of 1.7σ statistical evidence.
- 2 From a fit using a vector meson dominance model with contributions from $\phi(1680)$, $\phi(2170)$ and non resonant contribution.
- 3 From the analysis of the combined measurements of $\sigma(e^+e^- \rightarrow \eta\phi)$ from BaBar, Belle, BESIII, CMD3.
- 4 From a partial wave amplitude analysis at $\sqrt{s} = 2.125$ GeV which includes all the possible intermediate states that match J^{PC} conservation in the subsequent two-body decay. The intermediate states are parameterized with the relativistic Breit-Wigner functions. Statistical error only.

- 5 Seen in $\psi(2S)$ decay with branching ratio $\psi(2S) \rightarrow X\eta \rightarrow K^+K^-\eta = (12.0 \pm 1.3^{+6.5}_{-6.9}) \times 10^{-6}$.
- 6 From a fit using a vector meson dominance model with contribution from $\rho(770)$, $\omega(782)$, $\phi(1020)$, $\omega(1420)$, $\rho(1450)$.
- 7 From a fit with coherent interference of the $\phi(1680)$ with a non-resonant contribution.
- 8 Assuming the $K\bar{K}^*(892) + \text{c.c.}$ dynamics. Systematic uncertainties not estimated.
- 9 Using a vector meson dominance model with contribution from $\phi(1020)$, $\phi(1680)$, and higher mass excitations of $\rho(770)$ and $\omega(782)$.
- 10 Using events with $\pi\pi$ invariant mass less than 0.85 GeV.
- 11 From a fit with two incoherent Breit-Wigners.
- 12 From the simultaneous fit to the $K\bar{K}^*(892) + \text{c.c.}$ and $\phi\eta$ data from AUBERT 08S using the results of AUBERT 07AK.
- 13 From the combined fit of AKHMETSHIN 03 and MANE 81 also including ρ , ω , and ϕ . Neither isospin nor flavor structure known.
- 14 Using data from IVANOV 81, BARKOV 87, BISELLO 88B, DOLINSKY 91, and ANTONELLI 92.
- 15 Using the data from BISELLO 91C.
- 16 Using BISELLO 88B and MANE 82 data.

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- 17 From global fit including ρ , ω , ϕ and $\rho(1700)$ assume mass 1570 MeV and width 510 MeV for ρ radial excitation.
- 18 From global fit of ρ , ω , ϕ and their radial excitations to channels $\omega\pi^+\pi^-$, K^+K^- , $K_S^0 K_L^0$, $K_S^0 K^\pm \pi^\mp$. Assume mass 1570 MeV and width 510 MeV for ρ radial excitations, mass 1570 and width 500 MeV for ω radial excitation.
- 19 Fit to one channel only, neglecting interference with ω , $\rho(1700)$.

$p\bar{p}$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1700±8	¹ AMSLER	06	CBAR 0.9 $\bar{p}p \rightarrow K^+K^-\pi^0$
1 Could also be $\rho(1700)$.			

$\phi(1680)$ WIDTH

e^+e^- PRODUCTION

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
150 ± 50 OUR ESTIMATE				This is only an educated guess; the error given is larger than the error on the average of the published values.
• • • We do not use the following data for averages, fits, limits, etc. • • •				
159 ± 15 ± 11		ABLIKIM	24CB BES3	$J/\psi \rightarrow \phi\eta\pi^0$
150.8 ± 7.0		¹ LICHARD	23 RVUE	$e^+e^- \rightarrow \gamma(nS) \rightarrow \phi\eta\gamma$
149 ± 12 ± 13		² ZHU	23 BELL	$e^+e^- \rightarrow \gamma(nS) \rightarrow \phi\eta\gamma$
156 ± 5 ± 9		³ ZHU	23A RVUE	$e^+e^- \rightarrow \eta\phi$
172 ± 8		⁴ ABLIKIM	22L BES3	$2.0-3.08 e^+e^- \rightarrow K^+K^-\pi^0$
185 ± 30 ± 25	1.8k	⁵ ABLIKIM	20F BES3	$\psi(2S) \rightarrow K^+K^-\eta$
159 ± 32		⁶ ACHASOV	20C SND	$1.3-2.0 e^+e^- \rightarrow K^+K^-\pi^0$
103 ± 26		ACHASOV	19 SND	$e^+e^- \rightarrow \pi^+\pi^-\pi^0\eta$
176 ± 23 ± 38	3k	⁷ IVANOV	19A CMD3	$1.59-2.007 e^+e^- \rightarrow K^+K^-\eta$
300 ± 50	2k	⁸ ACHASOV	18A SND	$1.3-2.0 e^+e^- \rightarrow K_S^0 K_L^0 \pi^0$
165 ± 38 ± 70	6.2k	⁹ LEES	14H BABR	$e^+e^- \rightarrow K_S^0 K_L^0 \gamma$
300 ± 15 ± 37		¹⁰ LEES	12F BABR	$10.6 e^+e^- \rightarrow \phi\pi^+\pi^-\gamma$
211 ± 14 ± 19	4.8k	¹¹ SHEN	09 BELL	$10.6 e^+e^- \rightarrow K^+K^-\pi^+\pi^-\gamma$
322 ± 77 ± 160		¹² AUBERT	08S BABR	$10.6 e^+e^- \rightarrow \text{hadrons}$
139 ± 60	948	¹³ AKHMETSHIN	03 CMD2	$1.05-1.38 e^+e^- \rightarrow K_L^0 K_S^0$
300 ± 60		¹⁴ CLEGG	94 RVUE	$e^+e^- \rightarrow K^+K^-, K_S^0 K\pi$
146 ± 55	367	BISELLO	91C DM2	$e^+e^- \rightarrow K_S^0 K^\pm\pi^\mp$
207 ± 45		¹⁵ BISELLO	88B DM2	$e^+e^- \rightarrow K^+K^-$
185 ± 22		¹⁶ BUON	82 DM1	$e^+e^- \rightarrow \text{hadrons}$
102 ± 36		¹⁷ MANE	82 DM1	$e^+e^- \rightarrow K_S^0 K\pi$

¹ From a VDM fit to ZHU 23 $\eta\phi\gamma$ data with two resonances, $\phi(1680)$, $\phi(2170)$, and a third resonance with mass 1850.7 ± 5.3 MeV and width 25 ± 35 MeV of 1.7σ statistical evidence.

² From a fit using a vector meson dominance model with contributions from $\phi(1680)$, $\phi(2170)$ and non resonant contribution.

³ From the analysis of the combined measurements of $\sigma(e^+e^- \rightarrow \eta\phi)$ from BaBar, Belle, BESIII, CMD3.

⁴ From a partial wave amplitude analysis at $\sqrt{s} = 2.125$ GeV which includes all the possible intermediate states that match J^{PC} conservation in the subsequent two-body decay. The intermediate states are parameterized with the relativistic Breit-Wigner functions. Statistical error only.

⁵ Seen in $\psi(2S)$ decay with branching ratio $\psi(2S) \rightarrow X\eta \rightarrow K^+K^-\eta = (12.0 \pm 1.3^{+6.5}_{-6.9}) \times 10^{-6}$.

⁶ From a fit using a vector meson dominance model with contribution from $\rho(770)$, $\omega(782)$, $\phi(1020)$, $\omega(1420)$, $\rho(1450)$.

⁷ From a fit with coherent interference of the $\phi(1680)$ with a non-resonant contribution.

⁸ Assuming the $K\bar{K}^*(892) + \text{c.c.}$ dynamics. Systematic uncertainties not estimated.

⁹ Using a vector meson dominance model with contribution from $\phi(1020)$, $\phi(1680)$, and higher mass excitations of $\rho(770)$ and $\omega(782)$.

¹⁰ Using events with $\pi\pi$ invariant mass less than 0.85 GeV.

¹¹ From a fit with two incoherent Breit-Wigners.

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- 12 From the simultaneous fit to the $K\bar{K}^*(892) +$ c.c. and $\phi\eta$ data from AUBERT 08s using the results of AUBERT 07AK.
- 13 From the combined fit of AKHMETSHIN 03 and MANE 81 also including ρ , ω , and ϕ . Neither isospin nor flavor structure known.
- 14 Using BISELLO 88B and MANE 82 data.
- 15 From global fit including ρ , ω , ϕ and $\rho(1700)$
- 16 From global fit of ρ , ω , ϕ and their radial excitations to channels $\omega\pi^+\pi^-$, K^+K^- , $K_S^0K_L^0$, $K_S^0K^\pm\pi^\mp$. Assume mass 1570 MeV and width 510 MeV for ρ radial excitations, mass 1570 and width 500 MeV for ω radial excitation.
- 17 Fit to one channel only, neglecting interference with ω , $\rho(1700)$.

$p\bar{p}$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
143±24	¹ AMSLER	06	CBAR $0.9 \bar{p}p \rightarrow K^+K^-\pi^0$
1 Could also be $\rho(1700)$.			

$\phi(1680)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 K\bar{K}^*(892) +$ c.c.	seen
$\Gamma_2 K_S^0 K\pi$	seen
$\Gamma_3 K\bar{K}$	seen
$\Gamma_4 K_L^0 K_S^0$	
$\Gamma_5 e^+e^-$	seen
$\Gamma_6 \omega\pi\pi$	not seen
$\Gamma_7 \phi\pi\pi$	
$\Gamma_8 K^+K^-\pi^+\pi^-$	seen
$\Gamma_9 \eta\phi$	seen
$\Gamma_{10} \eta\gamma$	seen
$\Gamma_{11} K^+K^-\pi^0$	
$\Gamma_{12} f'_2(1525)\gamma$	not seen

$\phi(1680) \Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$

This combination of a partial width with the partial width into e^+e^- and with the total width is obtained from the integrated cross section into channel (I) in e^+e^- annihilation. We list only data that have not been used to determine the partial width $\Gamma(I)$ or the branching ratio $\Gamma(I)/\text{total}$.

VALUE (eV)	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_4\Gamma_5/\Gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					

14.3±2.4±6.2	6.2k	¹ LEES	14H BABR	$e^+e^- \rightarrow K_S^0 K_L^0 \gamma$
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1 Using a vector meson dominance model with contribution from $\phi(1020)$, $\phi(1680)$, and higher mass excitations of $\rho(770)$ and $\omega(782)$.

VALUE (10^{-2} keV)	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_7\Gamma_5/\Gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					

4.2±0.2±0.3	LEES	12F BABR	10.6	$e^+e^- \rightarrow \phi\pi^+\pi^-\gamma$
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VALUE (eV)	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_9\Gamma_5/\Gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					

122±6±13	¹ ZHU	23 BELL	$e^+e^- \rightarrow \gamma(nS) \rightarrow \phi\eta\gamma$	
$65 \pm 5 \pm 13$ to $215 \pm 8 \pm 11$	² ZHU	23A RVUE	$e^+e^- \rightarrow \eta\phi$	
94±13±15	3k	³ IVANOV	19A CMD3	$1.59-2.007 e^+e^- \rightarrow K^+K^-\eta$

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¹ From a solution of the fit using a vector meson dominance model with contributions from $\phi(1680)$, $\phi(2170)$ and non resonant contribution. Other solutions with equal fit quality give $(219 \pm 15 \pm 18)$ eV, $(163 \pm 11 \pm 13)$ eV and $(203 \pm 12 \pm 18)$ eV.

² From the analysis of the combined measurements of $\sigma(e^+e^- \rightarrow \eta\phi)$ from BaBar, Belle, BESIII, CMD3. Four solutions are found, with equal fit quality: $(79 \pm 4 \pm 16)$ eV, $(127 \pm 5 \pm 12)$ eV, $(65^{+5}_{-4} \pm 13)$ eV, $(215^{+8}_{-5} \pm 11)$ eV.

³ From a fit with coherent interference of the $\phi(1680)$ with a non-resonant contribution.

$\phi(1680) \Gamma(i) \Gamma(e^+e^-)/\Gamma^2(\text{total})$

This combination of a branching ratio into channel (*i*) and branching ratio into e^+e^- is directly measured and obtained from the cross section at the peak. We list only data that have not been used to determine the branching ratio into (*i*) or e^+e^- .

$\Gamma(K_L^0 K_S^0)/\Gamma_{\text{total}} \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$

$\Gamma_4/\Gamma \times \Gamma_5/\Gamma$

VALUE (units 10^{-6})	EVTS	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.131 ± 0.059 948 ¹ AKHMETSHIN 03 CMD2 $1.05\text{--}1.38 e^+e^- \rightarrow K_L^0 K_S^0$

¹ From the combined fit of AKHMETSHIN 03 and MANE 81 also including ρ , ω , and ϕ . Neither isospin nor flavor structure known. Recalculated by us.

$\Gamma(K\bar{K}^*(892)+\text{c.c.})/\Gamma_{\text{total}} \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$

$\Gamma_1/\Gamma \times \Gamma_5/\Gamma$

VALUE (units 10^{-6})	EVTS	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$1.15 \pm 0.16 \pm 0.01$ 1 AUBERT 08S BABR $10.6 e^+e^- \rightarrow K\bar{K}^*(892)\gamma +$

3.29 ± 1.57 367 ² BISELLO 91C DM2 $1.35\text{--}2.40 e^+e^- \rightarrow K_S^0 K^\pm \pi^\mp$

¹ From the simultaneous fit to the $K\bar{K}^*(892)+\text{c.c.}$ and $\phi\eta$ data from AUBERT 08S using the results of AUBERT 07AK.

² Recalculated by us with the published value of $B(K\bar{K}^*(892) + \text{c.c.}) \times \Gamma(e^+e^-)$.

$\Gamma(\phi\pi\pi)/\Gamma_{\text{total}} \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$

$\Gamma_7/\Gamma \times \Gamma_5/\Gamma$

VALUE (units 10^{-7})	EVTS	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$1.86 \pm 0.14 \pm 0.21$ 4.8k ¹ SHEN 09 BELL $10.6 e^+e^- \rightarrow K^+K^-\pi^+\pi^-\gamma$

¹ Multiplied by 3/2 to take into account the $\phi\pi^0\pi^0$ mode. Using $B(\phi \rightarrow K^+K^-) = (49.2 \pm 0.6)\%$.

$\Gamma(\eta\phi)/\Gamma_{\text{total}} \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$

$\Gamma_9/\Gamma \times \Gamma_5/\Gamma$

VALUE (units 10^{-7})	EVTS	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$5.64^{+1.74}_{-1.80}$ ACHASOV 19 SND $e^+e^- \rightarrow \pi^+\pi^-\pi^0\eta$

$5.3 \pm 0.6 \pm 0.9$ 3k ¹ IVANOV 19A CMD3 $1.59\text{--}2.007 e^+e^- \rightarrow K^+K^-\eta$

$4.3 \pm 1.0 \pm 0.9$ ² AUBERT 08S BABR $10.6 e^+e^- \rightarrow \phi\eta\gamma$

¹ From a fit with coherent interference of the $\phi(1680)$ with a non-resonant contribution.

² From the simultaneous fit to the $K\bar{K}^*(892)+\text{c.c.}$ and $\phi\eta$ data from AUBERT 08S using the results of AUBERT 07AK.

$\phi(1680)$ BRANCHING RATIOS

$\Gamma(K\bar{K}^*(892)+\text{c.c.})/\Gamma(K_S^0 K\pi)$

Γ_1/Γ_2

VALUE	DOCUMENT ID	TECN	COMMENT
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dominant MANE 82 DM1 $e^+e^- \rightarrow K_S^0 K^\pm \pi^\mp$

$\Gamma(K\bar{K})/\Gamma(K\bar{K}^*(892)+\text{c.c.})$

Γ_3/Γ_1

VALUE	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.07 ± 0.01 BUON 82 DM1 e^+e^-

$\Gamma(\omega\pi\pi)/\Gamma(K\bar{K}^*(892)+\text{c.c.})$

Γ_6/Γ_1

VALUE	DOCUMENT ID	TECN	COMMENT
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<0.10 BUON 82 DM1 e^+e^-

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$\Gamma(\eta\phi)/\Gamma_{\text{total}}$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_9/Γ
seen	35	¹ ACHASOV	14	SND 1.15–2.00 $e^+e^- \rightarrow \eta\gamma$	

¹ From a phenomenological model based on vector meson dominance with $\rho(1450)$ and $\phi(1680)$ masses and widths from the PDG 12.

 $\Gamma(\eta\phi)/\Gamma(K\bar{K}^*(892)+\text{c.c.})$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_9/Γ_1
• • • We do not use the following data for averages, fits, limits, etc. • • •				

≈ 0.37 ¹ AUBERT 08S BABR 10.6 $e^+e^- \rightarrow \text{hadrons}$

¹ From the fit including data from AUBERT 07AK.

 $\Gamma(\eta\gamma)/\Gamma_{\text{total}}$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{10}/Γ
seen	35	¹ ACHASOV	14	SND 1.15–2.00 $e^+e^- \rightarrow \eta\gamma$	

¹ From a phenomenological model based on vector meson dominance with $\rho(1450)$ and $\phi(1680)$ masses and widths from the PDG 12.

 $\Gamma(f'_2(1525)\gamma)/\Gamma_{\text{total}}$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{12}/Γ
not seen	¹ ACHASOV	22	SND 1.17–2.00 $e^+e^- \rightarrow \eta\eta\gamma$	

¹ The 90% CL upper limit on the Born cross sections $\sigma(e^+e^- \rightarrow \phi(1680) \rightarrow f'_2(1525)\gamma \rightarrow \eta\eta\gamma)$ and $\sigma(e^+e^- \rightarrow \rho(1700) \rightarrow f_0(1500)\gamma \rightarrow \eta\eta\gamma)$ is 10.6 pb.

 $\phi(1680)$ REFERENCES

ABLIKIM	24CB	PR D110 112014	M. Ablikim <i>et al.</i>	(BESIII Collab.)
LICHARD	23	PR D108 092005	P. Lichard	(OPAV, CTUP)
ZHU	23	PR D107 012006	W. Zhu <i>et al.</i>	(BELLE Collab.)
ZHU	23A	CP C47 113003	W. Zhu, X. Wang	(RVUE)
ABLIKIM	22L	JHEP 2207 045	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ACHASOV	22	EPJ C82 168	M.N. Achasov <i>et al.</i>	(SND Collab.)
ABLIKIM	20F	PR D101 032008	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ACHASOV	20C	EPJ C80 1139	M.N. Achasov <i>et al.</i>	(SND Collab.)
ACHASOV	19	PR D99 112004	M.N. Achasov <i>et al.</i>	(SND Collab.)
IVANOV	19A	PL B798 134946	V.L. Ivanov <i>et al.</i>	(CMD-3 Collab.)
ACHASOV	18A	PR D97 032011	M.N. Achasov <i>et al.</i>	(SND Collab.)
ACHASOV	14	PR D90 032002	M.N. Achasov <i>et al.</i>	(SND Collab.)
LEES	14H	PR D89 092002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
LEES	12F	PR D86 012008	J.P. Lees <i>et al.</i>	(BABAR Collab.)
PDG	12	PR D86 010001	J. Beringer <i>et al.</i>	(PDG Collab.)
SHEN	09	PR D80 031101	C.P. Shen <i>et al.</i>	(BELLE Collab.)
AUBERT	08S	PR D77 092002	B. Aubert <i>et al.</i>	(BABAR Collab.)
AUBERT	07AK	PR D76 012008	B. Aubert <i>et al.</i>	(BABAR Collab.)
AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
AKHMETSHIN	03	PL B551 27	R.R. Akhmetshin <i>et al.</i>	(Novosibirsk CMD-2 Collab.)
Also		PAN 65 1222	E.V. Anashkin, V.M. Aulchenko, R.R. Akhmetshin	
		Translated from YAF 65 1255.		
ACHASOV	98H	PR D57 4334	N.N. Achasov, A.A. Kozhevnikov	
CLEGG	94	ZPHY C62 455	A.B. Clegg, A. Donnachie	(LANC, MCHS)
ANTONELLI	92	ZPHY C56 15	A. Antonelli <i>et al.</i>	(DM2 Collab.)
BISELLO	91C	ZPHY C52 227	D. Bisello <i>et al.</i>	(DM2 Collab.)
DOLINSKY	91	PRPL 202 99	S.I. Dolinsky <i>et al.</i>	(NOVO)
BISELLO	88B	ZPHY C39 13	D. Bisello <i>et al.</i>	(PADO, CLER, FRAS+)
BARKOV	87	JETPL 46 164	L.M. Barkov <i>et al.</i>	(NOVO)
		Translated from ZETFP 46 132.		
BUON	82	PL 118B 221	J. Buon <i>et al.</i>	(LAJO, MONP)
MANE	82	PL 112B 178	F. Mane <i>et al.</i>	(LAJO)
IVANOV	81	PL 107B 297	P.M. Ivanov <i>et al.</i>	(NOVO)
MANE	81	PL 99B 261	F. Mane <i>et al.</i>	(ORSAY)

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