

$\rho(1900)$

$$J^{PC} = 1^{+}(1^{-}-)$$

OMITTED FROM SUMMARY TABLE

 $\rho(1900)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
$1909 \pm 17 \pm 25$	54	¹ AUBERT	08S BABR	$10.6 e^+ e^- \rightarrow \phi \pi^0 \gamma$
1880 ± 30		AUBERT	06D BABR	$10.6 e^+ e^- \rightarrow 3\pi^+ 3\pi^- \gamma$
1860 ± 20		AUBERT	06D BABR	$10.6 e^+ e^- \rightarrow 2(\pi^+ \pi^- \pi^0) \gamma$
1910 ± 10		^{2,3} FRABETTI	04 E687	$\gamma p \rightarrow 3\pi^+ 3\pi^- p$
1870 ± 10		ANTONELLI	96 SPEC	$e^+ e^- \rightarrow \text{hadrons}$

¹ From the fit with two resonances.² From a fit with two resonances with the JACOB 72 continuum.³ Supersedes FRABETTI 01. **$\rho(1900)$ WIDTH**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
$48 \pm 17 \pm 2$	54	⁴ AUBERT	08S BABR	$10.6 e^+ e^- \rightarrow \phi \pi^0 \gamma$
130 ± 30		AUBERT	06D BABR	$10.6 e^+ e^- \rightarrow 3\pi^+ 3\pi^- \gamma$
160 ± 20		AUBERT	06D BABR	$10.6 e^+ e^- \rightarrow 2(\pi^+ \pi^- \pi^0) \gamma$
37 ± 13		^{5,6} FRABETTI	04 E687	$\gamma p \rightarrow 3\pi^+ 3\pi^- p$
10 ± 5		ANTONELLI	96 SPEC	$e^+ e^- \rightarrow \text{hadrons}$

⁴ From the fit with two resonances.⁵ From a fit with two resonances with the JACOB 72 continuum.⁶ Supersedes FRABETTI 01. **$\rho(1900) \Gamma(i) \Gamma(e^+ e^-) / \Gamma^2(\text{total})$**

<u>VALUE (units 10^{-8})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	$\Gamma_4 \Gamma_6 / \Gamma^2$
$\Gamma(\phi\pi) \times \Gamma(e^+ e^-) / \Gamma_{\text{total}}^2$					
$4.2 \pm 1.2 \pm 0.8$	54	⁷ AUBERT	08S BABR	$10.6 e^+ e^- \rightarrow \phi \pi^0 \gamma$	

⁷ From the fit with two resonances.

$\rho(1900)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 6π	seen
Γ_2 $3\pi^+ 3\pi^-$	seen
Γ_3 $2\pi^+ 2\pi^- 2\pi^0$	
Γ_4 $\phi\pi$	
Γ_5 hadrons	seen
Γ_6 $e^+ e^-$	seen
Γ_7 $\bar{N} N$	not seen

$\rho(1900)$ BRANCHING RATIOS

$\Gamma(6\pi)/\Gamma_{\text{total}}$	Γ_1/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
not seen	AGNELLO	02	OBLX $\bar{n} p \rightarrow 3\pi^+ 2\pi^- \pi^0$
seen	FRABETTI	01	E687 $\gamma p \rightarrow 3\pi^+ 3\pi^- p$
seen	ANTONELLI	96	SPEC $e^+ e^- \rightarrow$ hadrons

$\rho(1900)$ REFERENCES

AUBERT	08S	PR D77 092002	B. Aubert <i>et al.</i>	(BABAR Collab.)
AUBERT	06D	PR D73 052003	B. Aubert <i>et al.</i>	(BABAR Collab.)
FRABETTI	04	PL B578 290	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
AGNELLO	02	PL B527 39	M. Agnello <i>et al.</i>	(OBELIX Collab.)
FRABETTI	01	PL B514 240	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
ANTONELLI	96	PL B365 427	A. Antonelli <i>et al.</i>	(FENICE Collab.)
JACOB	72	PR D5 1847	M. Jacob, R. Slansky	

OTHER RELATED PAPERS

DATTA	03B	PL B567 273	A. Datta, P.J. O'Donnell	
PAGE	99	PR D59 034016	P.R. Page, E.S. Swanson, A.P. Szczepaniak	
CLEGG	90	ZPHY C45 677	A.B. Clegg, A. Donnachie	(LANC, MCHS)
CASTRO	88	Preprint LAL-88-58	A. Castro <i>et al.</i>	(DM2 Collab.)