# $\omega(1420)$

$I^G(J^{PC}) = 0^-(1^{--})$

## $\omega$(1420) MASS

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **1419±31** | 315 | [1] ANTONELLI | 92 | DM2 | 1.34–2.4 $e^+e^- \rightarrow \rho\pi$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 1440±70 | | [2] CLEGG | 94 | RVUE | |

[1] From a fit to two Breit-Wigner functions interfering between them and with the $\omega$,$\phi$ tails with fixed (+,−,+) phases.
[2] Using data published by ANTONELLI 92.

## $\omega$(1420) WIDTH

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **174±59** | 315 | [3] ANTONELLI | 92 | DM2 | 1.34–2.4 $e^+e^- \rightarrow \rho\pi$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 240±70 | | [4] CLEGG | 94 | RVUE | |

[3] From a fit to two Breit-Wigner functions interfering between them and with the $\omega$,$\phi$ tails with fixed (+,−,+) phases.
[4] Using data published by ANTONELLI 92.

## $\omega$(1420) DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $\rho\pi$ | dominant |
| $\Gamma_2$ | $\omega\pi\pi$ | |
| $\Gamma_3$ | $e^+e^-$ | |

## $\omega$(1420) $\Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$

### $\Gamma(\rho\pi) \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$ — $\Gamma_1\Gamma_3/\Gamma$

| *VALUE* (eV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **81±31** | 315 | [5] ANTONELLI | 92 | DM2 | 1.34–2.4 $e^+e^- \rightarrow \rho\pi$ |

[5] From a fit to two Breit-Wigner functions interfering between them and with the $\omega$,$\phi$ tails with fixed (+,−,+) phases.

## $\omega$(1420) REFERENCES


| | | | | |
|---|---|---|---|---|
| CLEGG | 94 | ZPHY C62 455 | +Donnachie | (LANC, MCHS) |
| ANTONELLI | 92 | ZPHY C56 15 | +Baldini+ | (DM2 Collab.) |


## OTHER RELATED PAPERS


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