

X(4350)

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

OMITTED FROM SUMMARY TABLE

Seen by SHEN 10 in the $\gamma\gamma \rightarrow J/\psi\phi$. Needs confirmation.**X(4350) MASS**

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|--------------------------------|---------------------|-------------------|------|--|
| $4350.6^{+4.6}_{-5.1} \pm 0.7$ | $8.8^{+4.2}_{-3.2}$ | ¹ SHEN | 10 | BELL 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ |

¹Statistical significance of 3.2 σ .**X(4350) WIDTH**

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|-----------------------|---------------------|-------------------|------|--|
| $13^{+18}_{-9} \pm 4$ | $8.8^{+4.2}_{-3.2}$ | ¹ SHEN | 10 | BELL 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ |

¹Statistical significance of 3.2 σ .**X(4350) DECAY MODES**

| Mode | Fraction (Γ_i/Γ) |
|---------------------------|--------------------------------|
| Γ_1 $J/\psi\phi$ | seen |
| Γ_2 $\gamma\gamma$ | seen |

X(4350) $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

| $\Gamma(\gamma\gamma) \times \Gamma(J/\psi\phi)/\Gamma_{\text{total}}$ | EVTS | DOCUMENT ID | TECN | COMMENT | $\Gamma_2\Gamma_1/\Gamma$ |
|--|---------------------|-------------------|------|--|---------------------------|
| $6.7^{+3.2}_{-2.4} \pm 1.1$ | $8.8^{+4.2}_{-3.2}$ | ¹ SHEN | 10 | BELL 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ | |

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

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|-----------------------------|---------------------|-------------------|----|--|
| $1.5^{+0.7}_{-0.6} \pm 0.3$ | $8.8^{+4.2}_{-3.2}$ | ² SHEN | 10 | BELL 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ |
|-----------------------------|---------------------|-------------------|----|--|

¹For $J^P = 0^+$. Statistical significance of 3.2 σ .²For $J^P = 2^+$. Statistical significance of 3.2 σ .**X(4350) BRANCHING RATIOS**

| $\Gamma(J/\psi\phi)/\Gamma_{\text{total}}$ | DOCUMENT ID | TECN | COMMENT | Γ_1/Γ |
|--|-------------------|------|--|-------------------|
| seen | ¹ SHEN | 10 | BELL 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ | |

¹Statistical significance of 3.2 σ .

| $\Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ | | | | Γ_2/Γ |
|--|--------------------|-------------|----------------|---|
| <i>VALUE</i> | <i>DOCUMENT ID</i> | <i>TECN</i> | <i>COMMENT</i> | |
| seen | ¹ SHEN | 10 | BELL | 10.6 $e^+e^- \rightarrow e^+e^- J/\psi\phi$ |

¹Statistical significance of 3.2 σ .

X(4350) REFERENCES

| | | | | |
|------|----|----------------|-------------------------|-----------------|
| SHEN | 10 | PRL 104 112004 | C.P. Shen <i>et al.</i> | (BELLE Collab.) |
|------|----|----------------|-------------------------|-----------------|