

$K_2^*(1980)$

$$I(J^P) = \frac{1}{2}(2^+)$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

 $K_2^*(1980)$ MASS

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | CHG | COMMENT |
|---|----------|-------------|------|------|--|
| 1973±8±25 | | ASTON | 87 | LASS | 0 11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 2020±20 | | TIKHOMIROV | 03 | SPEC | 40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$ |
| 1978±40 | 241 ± 47 | BIRD | 89 | LASS | - 11 $K^- p \rightarrow \bar{K}^0 \pi^- p$ |

 $K_2^*(1980)$ WIDTH

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | CHG | COMMENT |
|---|----------|-------------|------|------|--|
| 373±33±60 | | ASTON | 87 | LASS | 0 11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 180±70 | | TIKHOMIROV | 03 | SPEC | 40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$ |
| 398±47 | 241 ± 47 | BIRD | 89 | LASS | - 11 $K^- p \rightarrow \bar{K}^0 \pi^- p$ |

 $K_2^*(1980)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|--------------------------|--------------------------------|
| Γ_1 $K^*(892)\pi$ | possibly seen |
| Γ_2 $K\rho$ | possibly seen |
| Γ_3 $K f_2(1270)$ | possibly seen |

 $K_2^*(1980)$ BRANCHING RATIOS

| $\Gamma(K^*(892)\pi)/\Gamma_{\text{total}}$ | Γ_1/Γ | | | |
|---|---------------------|------|---|--|
| VALUE | DOCUMENT ID | TECN | COMMENT | |
| possibly seen | GULER | 11 | BELL $B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$ | |
| $\Gamma(K\rho)/\Gamma_{\text{total}}$ | Γ_2/Γ | | | |
| VALUE | DOCUMENT ID | TECN | COMMENT | |
| possibly seen | GULER | 11 | BELL $B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$ | |
| $\Gamma(K\rho)/\Gamma(K^*(892)\pi)$ | Γ_2/Γ_1 | | | |
| VALUE | DOCUMENT ID | TECN | CHG | COMMENT |
| 1.49±0.24±0.09 | ASTON | 87 | LASS | 0 11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$ |

$\Gamma(K f_2(1270))/\Gamma_{\text{total}}$

Γ_3/Γ

| <u>VALUE</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|----------------------|--------------------|-------------|--|
| possibly seen | TIKHOMIROV 03 | SPEC | 40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$ |

$K_2^*(1980)$ REFERENCES

| | | | | |
|------------|----|-----------------------------|-------------------------------|--------------------------|
| GULER | 11 | PR D83 032005 | H. Guler <i>et al.</i> | (BELLE Collab.) |
| TIKHOMIROV | 03 | PAN 66 828 | G.D. Tikhomirov <i>et al.</i> | |
| | | Translated from YAF 66 860. | | |
| BIRD | 89 | SLAC-332 | P.F. Bird | (SLAC) |
| ASTON | 87 | NP B292 693 | D. Aston <i>et al.</i> | (SLAC, NAGO, CINC, INUS) |