

# $K_2^*(1980)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

## $K_2^*(1980)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>1973 ± 8 ± 25</b>		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

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>373 ± 33 ± 60</b>		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 ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $K^*(892)\pi$	possibly seen
$\Gamma_2$ $K\rho$	possibly seen
$\Gamma_3$ $K f_2(1270)$	possibly seen

## $K_2^*(1980)$ BRANCHING RATIOS

<b><math>\Gamma(K^*(892)\pi)/\Gamma_{\text{total}}</math></b>	<b><math>\Gamma_1/\Gamma</math></b>
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>possibly seen</b>	GULER 11 BELL $B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$
<b><math>\Gamma(K\rho)/\Gamma_{\text{total}}</math></b>	<b><math>\Gamma_2/\Gamma</math></b>
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>possibly seen</b>	GULER 11 BELL $B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$
<b><math>\Gamma(K\rho)/\Gamma(K^*(892)\pi)</math></b>	<b><math>\Gamma_2/\Gamma_1</math></b>
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>CHG</u> <u>COMMENT</u>
<b>1.49 ± 0.24 ± 0.09</b>	ASTON 87 LASS 0 11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$

$\Gamma(K f_2(1270))/\Gamma_{\text{total}}$			$\Gamma_3/\Gamma$
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>possibly seen</b>	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)