$K_2^*(1980)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

K₂*(1980) MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN CHG	COMMENT
1974±26 OUR A	WERAGE				
$2073 \pm 94 ^{+245}_{-240}$	4289				$B^+ \rightarrow J/\psi \phi K^+$
$1973 \pm 8 \pm 25$		ASTON	87	LASS 0	11 K ⁻ p $\rightarrow \overline{K}^0\pi^+\pi^-$ n
• • • We do not use the following data for averages, fits, limits, etc. • •					
2020 ± 20					40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_I^0 X$
1978 ± 40	241	BIRD	89	LASS -	$11 K^- p \rightarrow \overline{K}{}^0 \pi^- p$
1 From an amplitude analysis of the decay $B^{+} ightarrow\ J/\psi\phi K^{+}$ with a significance of 5.4 σ .					

K₂*(1980) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
376± 70 OUR A	VERAGE					
$678 \pm 311 {+1153 \atop -559}$	4289	² AAIJ	17 C	LHCB		$B^+ \rightarrow J/\psi \phi K^+$
$373\pm 33\pm 60$		ASTON	87	LASS	0	$11~{\it K}^- p ightarrow ~\overline{\it K}^0 \pi^+ \pi^- n$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$180\pm~70$						40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
398 ± 47	241	BIRD	89	LASS	_	$11 K^- p \rightarrow \overline{K}{}^0 \pi^- p$
² From an amplitude analysis of the decay $B^+ o J/\psi \phi K^+$ with a significance of 5.4 σ .						

$K_2^*(1980)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
$\overline{\Gamma_1}$	$K^*(892)\pi$	possibly seen
Γ_2	$K \rho$	possibly seen
Γ_3	$K f_2(1270)$	possibly seen
Γ_4	$oldsymbol{\mathcal{K}}\phi$	seen

K^{*}₂(1980) BRANCHING RATIOS

$\Gamma(K^*(892)\pi)/\Gamma_{total}$				Γ_1/Γ
VALUE	DOCUMENT IL)	TECN	COMMENT
possibly seen	GULER	11	BELL	$B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$
$\Gamma(K ho)/\Gamma_{ ext{total}}$				Γ ₂ /Γ
VALUE	DOCUMENT II)	TECN	COMMENT
possibly seen	GULER	11	BELL	$B^+ \rightarrow J/\psi K^+ \pi^+ \pi^-$
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K₂*(1980) REFERENCES

AAIJ	17C	PRL 118 022003	R. Aaij <i>et al.</i>	(LHCb Collab.)
Also		PR D95 012002	R. Aaij et al.	(LHCb Collab.)
GULER	11	PR D83 032005	H. Guler et al.	(BELLE Collab.)
TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov et al.	
		Translated from YAF 6	56 860.	
BIRD	89	SLAC-332	P.F. Bird	(SLAC)
ASTON	87	NP B292 693	D. Aston et al.	(SLAC, NAGO, CINC, INUS)

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