

$K_2(1820)$ $I(J^P) = \frac{1}{2}(2^-)$

See our mini-review in the 2004 edition of this *Review* (PDG 04)
under $K_2(1770)$.

 $K_2(1820)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1816 ± 13	¹ ASTON 93	LASS	$11K^- p \rightarrow K^- \omega p$

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

~ 1840	² DAUM 81C	CNTR	$63 K^- p \rightarrow K^- 2\pi p$
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¹ From a partial wave analysis of the $K^- \omega$ system.

² From a partial wave analysis of the $K^- 2\pi$ system.

 $K_2(1820)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
276 ± 35	³ ASTON 93	LASS	$11K^- p \rightarrow K^- \omega p$

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

~ 230	⁴ DAUM 81C	CNTR	$63 K^- p \rightarrow K^- 2\pi p$
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³ From a partial wave analysis of the $K^- \omega$ system.

⁴ From a partial wave analysis of the $K^- 2\pi$ system.

 $K_2(1820)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 K\pi\pi$	
$\Gamma_2 K_2^*(1430)\pi$	seen
$\Gamma_3 K^*(892)\pi$	seen
$\Gamma_4 Kf_2(1270)$	seen
$\Gamma_5 K\omega$	seen

 $K_2(1820)$ BRANCHING RATIOS

$$\Gamma(K_2^*(1430)\pi)/\Gamma(K\pi\pi) \quad \Gamma_2/\Gamma_1$$

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

VALUE	DOCUMENT ID	TECN	COMMENT
~ 0.77	DAUM 81C	CNTR	$63K^- p \rightarrow \bar{K}2\pi p$

$$\Gamma(K^*(892)\pi)/\Gamma(K\pi\pi) \quad \Gamma_3/\Gamma_1$$

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

VALUE	DOCUMENT ID	TECN	COMMENT
~ 0.05	DAUM 81C	CNTR	$63K^- p \rightarrow \bar{K}2\pi p$

$\Gamma(K f_2(1270))/\Gamma(K\pi\pi)$	Γ_4/Γ_1		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •			
~ 0.18	DAUM	81C CNTR	$63K^- p \rightarrow \bar{K}2\pi p$

$K_2(1820)$ REFERENCES

PDG	04	PL B592 1	S. Eidelman <i>et al.</i>	(PDG Collab.)
ASTON	93	PL B308 186	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
DAUM	81C	NP B187 1	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)