

**$K_2(1820)$** 

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

Observed by ASTON 93 from a partial wave analysis of the  $K^- \omega$  system. See mini-review under  $K_2(1770)$ . **$K_2(1820)$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>1816 \pm 13</math></b>	<sup>1</sup> ASTON	93 LASS	$11 K^- p \rightarrow K^- \omega p$
<b><math>\sim 1840</math></b>	<sup>2</sup> DAUM	81C CNTR	$63 K^- p \rightarrow K^- 2\pi p$

<sup>1</sup> From a partial wave analysis of the  $K^- \omega$  system.<sup>2</sup> From a partial wave analysis of the  $K^- 2\pi$  system. **$K_2(1820)$  WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>276 \pm 35</math></b>	<sup>3</sup> ASTON	93 LASS	$11 K^- p \rightarrow K^- \omega p$
<b><math>\sim 230</math></b>	<sup>4</sup> DAUM	81C CNTR	$63 K^- p \rightarrow K^- 2\pi p$

<sup>3</sup> From a partial wave analysis of the  $K^- \omega$  system.<sup>4</sup> From a partial wave analysis of the  $K^- 2\pi$  system. **$K_2(1820)$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $K \pi \pi$	
$\Gamma_2$ $K_2^*(1430) \pi$	seen
$\Gamma_3$ $K^*(892) \pi$	seen
$\Gamma_4$ $K f_2(1270)$	seen
$\Gamma_5$ $K \omega$	seen

 **$K_2(1820)$  BRANCHING RATIOS** **$\Gamma(K_2^*(1430)\pi)/\Gamma(K\pi\pi)$   $\Gamma_2/\Gamma_1$** 

VALUE	DOCUMENT ID	TECN	COMMENT
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

$\sim 0.77$	DAUM	81C CNTR	$63 K^- p \rightarrow \bar{K} 2\pi p$
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 **$\Gamma(K^*(892)\pi)/\Gamma(K\pi\pi)$   $\Gamma_3/\Gamma_1$** 

VALUE	DOCUMENT ID	TECN	COMMENT
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

$\sim 0.05$	DAUM	81C CNTR	$63 K^- p \rightarrow \bar{K} 2\pi p$
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$\Gamma(K f_2(1270))/\Gamma(K \pi \pi)$

$\Gamma_4/\Gamma_1$

VALUE                      DOCUMENT ID    TECN    COMMENT

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

~ 0.18                      DAUM                      81C CNTR    63K<sup>-</sup> p →  $\bar{K} 2\pi p$

**$K_2(1820)$  REFERENCES**

ASTON	93	PL B308 186	+Bienz, Bird+	(SLAC, NAGO, CINC, INUS)
DAUM	81C	NP B187 1	+Hertzberger+	(AMST, CERN, CRAC, MPIM, OXF+)