

## $K_2(1820)$

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

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>1816±13</b>	<sup>1</sup> ASTON	93 LASS	$11K^-\rho \rightarrow K^-\omega p$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
~1840	<sup>2</sup> DAUM	81C CNTR	$63K^-\rho \rightarrow K^-\pi\pi p$

<sup>1</sup> From a partial wave analysis of the  $K^-\omega$  system.

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

### $K_2(1820)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>276±35</b>	<sup>3</sup> ASTON	93 LASS	$11K^-\rho \rightarrow K^-\omega p$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
~230	<sup>4</sup> DAUM	81C CNTR	$63K^-\rho \rightarrow K^-\pi\pi p$
<sup>3</sup> From a partial wave analysis of the $K^-\omega$ system.			
<sup>4</sup> From a partial wave analysis of the $K^-\pi\pi$ 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
$\Gamma_4$ $Kf_2(1270)$	seen
$\Gamma_5$ $K\omega$	seen

### $K_2(1820)$ BRANCHING RATIOS

$\Gamma(K_2^*(1430)\pi)/\Gamma(K\pi\pi)$	$\Gamma_2/\Gamma_1$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>	
~0.77	DAUM 81C CNTR $63K^-\rho \rightarrow \bar{K}\pi\pi p$

$\Gamma(K^*(892)\pi)/\Gamma(K\pi\pi)$	$\Gamma_3/\Gamma_1$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>	
~0.05	DAUM 81C CNTR $63K^-\rho \rightarrow \bar{K}\pi\pi p$

$\Gamma(K f_2(1270))/\Gamma(K\pi\pi)$	$\Gamma_4/\Gamma_1$		
<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

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+)