

K(1460)

$$I(J^P) = \frac{1}{2}(0^-)$$

Observed in $K\pi\pi$ partial-wave analysis.**K(1460) MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
●●● We do not use the following data for averages, fits, limits, etc. ●●●					
$1482.40 \pm 3.58 \pm 15.22$	894k	AAIJ	18A1	LHCB	$D^0 \rightarrow K^\mp 2\pi^\pm \pi^\mp$
~ 1460	63	DAUM	81C	CNTR	$K^- p \rightarrow K^- 2\pi p$
~ 1400	13	¹ BRANDENB...	76B	ASPK	$K^\pm p \rightarrow K^\pm 2\pi p$
¹ Coupled mainly to $K f_0(1370)$. Decay into $K^*(892)\pi$ seen.					

K(1460) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
●●● We do not use the following data for averages, fits, limits, etc. ●●●					
$335.60 \pm 6.20 \pm 8.65$	894k	AAIJ	18A1	LHCB	$D^0 \rightarrow K^\mp 2\pi^\pm \pi^\mp$
~ 260	63	DAUM	81C	CNTR	$K^- p \rightarrow K^- 2\pi p$
~ 250	15	¹ BRANDENB...	76B	ASPK	$K^\pm p \rightarrow K^\pm 2\pi p$
¹ Coupled mainly to $K f_0(1370)$. Decay into $K^*(892)\pi$ seen.					

K(1460) DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $K^*(892)\pi$	seen
Γ_2 $K\rho$	seen
Γ_3 $K_0^*(1430)\pi$	seen
Γ_4 $K\phi$	seen

K(1460) PARTIAL WIDTHS **$\Gamma(K^*(892)\pi)$ Γ_1**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
●●● We do not use the following data for averages, fits, limits, etc. ●●●			
~ 109	DAUM	81C	CNTR 63 $K^- p \rightarrow K^- 2\pi p$

 $\Gamma(K\rho)$ Γ_2

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
●●● We do not use the following data for averages, fits, limits, etc. ●●●			
~ 34	DAUM	81C	CNTR 63 $K^- p \rightarrow K^- 2\pi p$

$\Gamma(K_0^*(1430)\pi)$

Γ_3

VALUE (MeV) DOCUMENT ID TECN COMMENT

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

~ 117 DAUM 81C CNTR 63 $K^- p \rightarrow K^- 2\pi p$

$\Gamma(K\phi)/\Gamma_{\text{total}}$

Γ_4/Γ

VALUE EVTS DOCUMENT ID TECN COMMENT

seen 24k ¹ AAIJ 21E LHCb $B^+ \rightarrow J/\psi\phi K^+$

¹From an amplitude analysis of the decay $B^+ \rightarrow J/\psi\phi K^+$ with a significance of 12σ .

K(1460) REFERENCES

AAIJ	21E	PRL 127 082001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	18A1	EPJ C78 443	R. Aaij <i>et al.</i>	(LHCb Collab.)
DAUM	81C	NP B187 1	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)
BRANDENB...	76B	PRL 36 1239	G.W. Brandenburg <i>et al.</i>	(SLAC) JP