NODE=M021

$K(1460)$

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

Observed in $K\pi\pi$ partial-wave analysis.

NODE=M021

$K(1460)$ MASS

NODE=M021M

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	18AI	LHCB		$D^0 \to K^\mp 2\pi^\pm \pi^\mp$
~ 1460	63	DAUM	81C	CNTR	–	$K^- p \to K^- 2\pi p$
~ 1400	13	[1] BRANDENB...	76B	ASPK	±	$K^\pm p \to K^+ 2\pi p$

[1] Coupled mainly to $K f_0(1370)$. Decay into $K^*(892)\pi$ seen.

NODE=M021M;LINKAGE=A

$K(1460)$ WIDTH

NODE=M021W

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	18AI	LHCB		$D^0 \to K^\mp 2\pi^\pm \pi^\mp$
~ 260	63	DAUM	81C	CNTR	–	$K^- p \to K^- 2\pi p$
~ 250	15	[1] BRANDENB...	76B	ASPK	±	$K^\pm p \to K^+ 2\pi p$

[1] Coupled mainly to $K f_0(1370)$. Decay into $K^*(892)\pi$ seen.

NODE=M021W;LINKAGE=A

$K(1460)$ DECAY MODES

NODE=M021215;NODE=M021

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$K^*(892)\pi$	seen	DESIG=1;OUR EST;→ UNCHECKED ←
Γ_2	$K\rho$	seen	DESIG=2;OUR EST;→ UNCHECKED ←
Γ_3	$K_0^*(1430)\pi$	seen	DESIG=3;OUR EST;→ UNCHECKED ←
Γ_4	$K\phi$	seen	DESIG=4

$K(1460)$ PARTIAL WIDTHS

NODE=M021220

$\Gamma(K^*(892)\pi)$ Γ_1

NODE=M021W1

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

NODE=M021W1

$\Gamma(K\rho)$ Γ_2

NODE=M021W2

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

NODE=M021W2

$\Gamma(K_0^*(1430)\pi)$ Γ_3

NODE=M021W3

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
~ 117	DAUM	81C	CNTR	63 $K^- p \to K^- 2\pi p$

NODE=M021W3

$\Gamma(K\phi)/\Gamma_{\text{total}}$ Γ_4/Γ

NODE=M021R00

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
seen	24k	[1] AAIJ	21E	LHCB	$B^+ \to J/\psi\phi K^+$

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

NODE=M021R00

NODE=M021R00;LINKAGE=A

$K(1460)$ REFERENCES

NODE=M021

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

REFID=61150
REFID=59187
REFID=22548
REFID=22767