

K(1830)

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

OMITTED FROM SUMMARY TABLE
Seen in partial-wave analysis of $K\phi$ system. Needs confirmation.

K(1830) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
$1874 \pm 43^{+59}_{-115}$	4289	1,2 AAIJ	17C	LHCB	$B^+ \rightarrow J/\psi \phi K^+$
~ 1830		ARMSTRONG 83	OMEG	-	$18.5 K^- p \rightarrow 3K p$
¹ From an amplitude analysis of the decay $B^+ \rightarrow J/\psi \phi K^+$ with a significance of 3.5σ .					
² A subsequent amplitude analysis of $B^+ \rightarrow J/\psi \phi K^+$ by AAIJ 21E did not confirm this measurement.					

K(1830) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
$168 \pm 90^{+280}_{-104}$	4289	3,4 AAIJ	17C	LHCB	$B^+ \rightarrow J/\psi \phi K^+$
~ 250		ARMSTRONG 83	OMEG	-	$18.5 K^- p \rightarrow 3K p$
³ From an amplitude analysis of the decay $B^+ \rightarrow J/\psi \phi K^+$ with a significance of 3.5σ .					
⁴ A subsequent amplitude analysis of $B^+ \rightarrow J/\psi \phi K^+$ by AAIJ 21E did not confirm this measurement.					

K(1830) DECAY MODES

Mode	
Γ_1	$K\phi$

K(1830) REFERENCES

AAIJ	21E	PRL 127 082001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	17C	PRL 118 022003	R. Aaij <i>et al.</i>	(LHCb Collab.)
Also		PR D95 012002	R. Aaij <i>et al.</i>	(LHCb Collab.)
ARMSTRONG	83	NP B221 1	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+) JP

NODE=M088

NODE=M088

NODE=M088M

NODE=M088M

NODE=M088M;LINKAGE=A
NODE=M088M;LINKAGE=B

NODE=M088W

NODE=M088W

NODE=M088W;LINKAGE=A
NODE=M088W;LINKAGE=B

NODE=M088215;NODE=M088

DESIG=1

NODE=M088

REFID=61150
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REFID=22801