

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
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• • • 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 $K^- p \rightarrow 3Kp$

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
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• • • 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 $K^- p \rightarrow 3Kp$

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	$K\phi$
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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