

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
$1874 \pm 43^{+59}_{-115}$	4289	¹ AAIJ	17C LHCb		$B^+ \rightarrow J/\psi\phi K^+$

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

~ 1830 ARMSTRONG 83 OMEG - 18.5 $K^- p \rightarrow 3Kp$

¹From an amplitude analysis of the decay $B^+ \rightarrow J/\psi\phi K^+$ with a significance of 3.5 σ .

K(1830) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
$168 \pm 90^{+280}_{-104}$	4289	² AAIJ	17C LHCb		$B^+ \rightarrow J/\psi\phi K^+$

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

~ 250 ARMSTRONG 83 OMEG - 18.5 $K^- p \rightarrow 3Kp$

²From an amplitude analysis of the decay $B^+ \rightarrow J/\psi\phi K^+$ with a significance of 3.5 σ .

K(1830) DECAY MODES

Mode
$\Gamma_1 \quad K\phi$

K(1830) REFERENCES

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