$K(1830)$

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

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		$B^+ \to J/\psi\phi K^+$
~ 1830		ARMSTRONG	83	OMEG	−	18.5 $K^- p \to 3K p$

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

[2] A subsequent amplitude analysis of $B^+ \to J/\psi\phi K^+$ 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		$B^+ \to J/\psi\phi K^+$
~ 250		ARMSTRONG	83	OMEG	−	18.5 $K^- p \to 3K p$

[3] From an amplitude analysis of the decay $B^+ \to J/\psi\phi K^+$ with a significance of 3.5 σ.

[4] A subsequent amplitude analysis of $B^+ \to J/\psi\phi K^+$ 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 *et al.*	(LHCb Collab.)
AAIJ	17C	PRL 118 022003	R. Aaij *et al.*	(LHCb Collab.)
Also		PR D95 012002	R. Aaij *et al.*	(LHCb Collab.)
ARMSTRONG	83	NP B221 1	T.A. Armstrong *et al.*	(BARI, BIRM, CERN+) JP