$K(1830)$

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

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