

**$K_1(1650)$**  $I(J^P) = \frac{1}{2}(1^+)$ 

## OMMITTED FROM SUMMARY TABLE

This entry contains various peaks in strange meson systems ( $K^+\phi$ ,  $K\pi\pi$ ) reported in partial-wave analysis in the 1600–1900 mass region.

 **$K_1(1650)$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b><math>1672 \pm 50</math> OUR AVERAGE</b>		Error includes scale factor of 1.1.			
$1793 \pm 59$	$\begin{array}{l} +153 \\ -101 \end{array}$	4289	1 AAIJ	17C LHCb	$B^+ \rightarrow J/\psi \phi K^+$
$1650 \pm 50$			FRAME	86 OMEG +	$13 K^+ p \rightarrow \phi K^+ p$
<b>• • • We do not use the following data for averages, fits, limits, etc. • • •</b>					
$\sim 1840$		ARMSTRONG	83 OMEG	–	$18.5 K^- p \rightarrow 3K p$
$\sim 1800$		DAUM	81C CNTR	–	$63 K^- p \rightarrow K^- 2\pi p$
<b>1</b> From an amplitude analysis of the decay $B^+ \rightarrow J/\psi \phi K^+$ with a significance of 7.6 $\sigma$ .					

 **$K_1(1650)$  WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b><math>158 \pm 50</math> OUR AVERAGE</b>					
$365 \pm 157$	$\begin{array}{l} +138 \\ -215 \end{array}$	4289	2 AAIJ	17C LHCb	$B^+ \rightarrow J/\psi \phi K^+$
$150 \pm 50$			FRAME	86 OMEG +	$13 K^+ p \rightarrow \phi K^+ p$
<b>• • • We do not use the following data for averages, fits, limits, etc. • • •</b>					
$\sim 250$		DAUM	81C CNTR	–	$63 K^- p \rightarrow K^- 2\pi p$
<b>2</b> From an amplitude analysis of the decay $B^+ \rightarrow J/\psi \phi K^+$ with a significance of 7.6 $\sigma$ .					

 **$K_1(1650)$  DECAY MODES**

## Mode

$\Gamma_1$	$K\pi\pi$
$\Gamma_2$	$K\phi$

 **$K_1(1650)$  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.)
FRAME	86	NP B276 667	D. Frame <i>et al.</i>	(GLAS)
ARMSTRONG	83	NP B221 1	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
DAUM	81C	NP B187 1	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)