

$K_0^*(800)$ or κ

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

OMITTED FROM SUMMARY TABLE

The existence of this state is controversial.

 $K_0^*(800)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
722±60		1 BUGG	03 RVUE	11 $K^-p \rightarrow K^- \pi^+ n$
797±19±43	15090	2 AITALA	02 E791	$D^+ \rightarrow K^- \pi^+ \pi^+$
905 ⁺⁶⁵ ₋₃₀		3 ISHIDA	79B RVUE	11 $K^-p \rightarrow K^- \pi^+ n$
1 T-matrix pole. Reanalysis of ASTON 88 data.				
2 Not seen by KOPP 01 using 7070 events of $D^0 \rightarrow K^- \pi^+ \pi^0$. Possibly seen by LINK 02E in $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$.				
3 Reanalysis of ASTON 88 using interfering Breit-Wigner amplitudes.				

 $K_0^*(800)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
772±100		4 BUGG	03 RVUE	11 $K^-p \rightarrow K^- \pi^+ n$
410±43±87	15090	5 AITALA	02 E791	$D^+ \rightarrow K^- \pi^+ \pi^+$
545 ⁺²³⁵ ₋₁₁₀		6 ISHIDA	79B RVUE	11 $K^-p \rightarrow K^- \pi^+ n$
4 T-matrix pole. Reanalysis of ASTON 88 data.				
5 Not seen by KOPP 01 using 7070 events of $D^0 \rightarrow K^- \pi^+ \pi^0$. Possibly seen by LINK 02E in $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$.				
6 Reanalysis of ASTON 88 using interfering Breit-Wigner amplitudes.				

 $K_0^*(800)$ REFERENCES

BUGG	03	PL B572 1	D.V. Bugg	
AITALA	02	PRL 89 121801	E.M. Aitala et al.	(FNAL E791 Collab.)
LINK	02E	PL B535 43	J.M. Link et al.	(FNAL FOCUS Collab.)
KOPP	01	PR D63 092001	S. Kopp et al.	(CLEO Collab.)
ISHIDA	97B	PTP 98 621	S. Ishida et al.	
ASTON	88	NP B296 493	D. Aston et al.	(SLAC, NAGO, CINC, INUS)

— OTHER RELATED PAPERS —

SEMENOV	03	PAN 66 526	S.V. Semenov	
		Translated from YAF 66 553.		
BEVEREN	01B	EPJ C22 493	E. van Beveren and G. Rupp	