



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

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. ● ● ●				
753 ± 52		<sup>1</sup> PELAEZ	04A RVUE	$K\pi \rightarrow K\pi$
594 ± 79		<sup>2</sup> ZHENG	04 RVUE	$K^- p \rightarrow K^- \pi^+ n$
722 ± 60		<sup>3</sup> BUGG	03 RVUE	11 $K^- p \rightarrow K^- \pi^+ n$
797 ± 19 ± 43	15090	<sup>4</sup> AITALA	02 E791	$D^+ \rightarrow K^- \pi^+ \pi^+$
905 <sup>+65</sup> <sub>-30</sub>		<sup>5</sup> ISHIDA	97B RVUE	11 $K^- p \rightarrow K^- \pi^+ n$

<sup>1</sup> T-matrix pole. Reanalysis of data from LINGLIN 73, ESTABROOKS 78, and ASTON 88 in the unitarized ChPT model.

<sup>2</sup> Using ASTON 88.

<sup>3</sup> T-matrix pole. Reanalysis of ASTON 88 data.

<sup>4</sup> Not seen by KOPP 01 using 7070 events of  $D^0 \rightarrow K^- \pi^+ \pi^0$ . Possibly seen by LINK 02E in  $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$ .

<sup>5</sup> 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. ● ● ●				
470 ± 66		<sup>6</sup> PELAEZ	04A RVUE	$K\pi \rightarrow K\pi$
724 ± 332		<sup>7</sup> ZHENG	04 RVUE	$K^- p \rightarrow K^- \pi^+ n$
772 ± 100		<sup>8</sup> BUGG	03 RVUE	11 $K^- p \rightarrow K^- \pi^+ n$
410 ± 43 ± 87	15090	<sup>9</sup> AITALA	02 E791	$D^+ \rightarrow K^- \pi^+ \pi^+$
545 <sup>+235</sup> <sub>-110</sub>		<sup>10</sup> ISHIDA	97B RVUE	11 $K^- p \rightarrow K^- \pi^+ n$

<sup>6</sup> T-matrix pole. Reanalysis of data from LINGLIN 73, ESTABROOKS 78, and ASTON 88 in the unitarized ChPT model.

<sup>7</sup> Using ASTON 88.

<sup>8</sup> T-matrix pole. Reanalysis of ASTON 88 data.

<sup>9</sup> Not seen by KOPP 01 using 7070 events of  $D^0 \rightarrow K^- \pi^+ \pi^0$ . Possibly seen by LINK 02E in  $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$ .

<sup>10</sup> Reanalysis of ASTON 88 using interfering Breit-Wigner amplitudes.

## $K_0^*(800)$ REFERENCES

PELAEZ	04A	MPL A19 2879	J.R. Pelaez	
ZHENG	04	NP A733 235	H.Q. Zheng <i>et al.</i>	
BUGG	03	PL B572 1	D.V. Bugg	
AITALA	02	PRL 89 121801	E.M. Aitala <i>et al.</i>	(FNAL E791 Collab.)
LINK	02E	PL B535 43	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
KOPP	01	PR D63 092001	S. Kopp <i>et al.</i>	(CLEO Collab.)
ISHIDA	97B	PTP 98 621	S. Ishida <i>et al.</i>	
ASTON	88	NP B296 493	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
ESTABROOKS	78	NP B133 490	P.G. Estabrooks <i>et al.</i>	(MCGI, CARL, DURH+)
LINGLIN	73	NP B55 408	D. Linglin	(CERN)

## OTHER RELATED PAPERS

BRITO	05	PL B608 69	T.V. Brito <i>et al.</i>	
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PELAEZ	04	PRL 92 102001	J.R. Pelaez	
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