

$K_0^*(1950)$

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

OMMITTED FROM SUMMARY TABLE

Seen in partial-wave analysis of the $K^- \pi^+$ system. Needs confirmation.

 $K_0^*(1950)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	CHG	COMMENT
$1945 \pm 10 \pm 20$	¹ ASTON	88 LASS	0	$11 K^- p \rightarrow K^- \pi^+ n$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1820 ± 40	² ANISOVICH	97C RVUE		$11 K^- p \rightarrow K^- \pi^+ n$
¹ We take the central value of the two solutions and the larger error given.				
² T-matrix pole. Reanalysis of ASTON 88 data.				

 $K_0^*(1950)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	CHG	COMMENT
$201 \pm 34 \pm 79$	³ ASTON	88 LASS	0	$11 K^- p \rightarrow K^- \pi^+ n$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
250 ± 100	⁴ ANISOVICH	97C RVUE		$11 K^- p \rightarrow K^- \pi^+ n$
³ We take the central value of the two solutions and the larger error given.				
⁴ T-matrix pole. Reanalysis of ASTON 88 data.				

 $K_0^*(1950)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 K\pi$	$(52 \pm 14) \%$

 $K_0^*(1950)$ BRANCHING RATIOS

$\Gamma(K\pi)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE	DOCUMENT ID	TECN	CHG	COMMENT
$0.52 \pm 0.08 \pm 0.12$	⁵ ASTON	88 LASS	0	$11 K^- p \rightarrow K^- \pi^+ n$
⁵ We take the central value of the two solutions and the larger error given.				

 $K_0^*(1950)$ REFERENCES

ANISOVICH	97C	PL B413 137		
ASTON	88	NP B296 493		
+Awaji, Bienz, Bird+			(SLAC, NAGO, CINC, INUS)	