Meson Full Listings

D^0

$\Gamma(\overline{K}^0\rho^0)/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{24}/Γ_{23}

VALUE	DOCUMENT ID		TECN	COMMENT
0.208±0.025 OUR AVERAGE				
0.227±0.032±0.009	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV
0.215±0.051±0.037	ANJOS	93	E691	γ Be 90–260 GeV
0.20 ±0.06 ±0.03	FRABETTI	92B	E687	γ Be $\overline{E}_\gamma = 221$ GeV
0.12 ±0.01 ±0.07	ADLER	87	MRK3	e^+e^- 3.77 GeV

$\Gamma(\overline{K}^0 f_0(980))/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{74}/Γ_{23}

Unseen decay modes of the $f_0(980)$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.088±0.035±0.012	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV

$\Gamma(\overline{K}^0 f_2(1270))/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{78}/Γ_{23}

Unseen decay modes of the $f_2(1270)$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.088±0.037±0.014	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV

$\Gamma(\overline{K}^0 f_0(1300))/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{79}/Γ_{23}

Unseen decay modes of the $f_0(1300)$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.131±0.045±0.021	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV

$\Gamma(K^*(892)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{81}/Γ_{23}

Unseen decay modes of the $K^*(892)^-$ are included.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.93 ±0.07 OUR FIT Error includes scale factor of 1.3.					
0.97 ±0.06 OUR AVERAGE Error includes scale factor of 1.1.					
1.08 ±0.063±0.045		ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV
0.720±0.145±0.185		ANJOS	93	E691	γ Be 90–260 GeV
0.96 ±0.12 ±0.075		FRABETTI	92B	E687	γ Be $\overline{E}_\gamma = 221$ GeV
0.84 ±0.06 ±0.08		ADLER	87	MRK3	e^+e^- 3.77 GeV
$1.05\ ^{+0.23}_{-0.26}\ ^{+0.07}_{-0.09}$	25	SCHINDLER	81	MRK2	e^+e^- 3.771 GeV

$\Gamma(K_0^*(1430)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{103}/Γ_{23}

Unseen decay modes of the $\overline{K}_0^*(1430)^-$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.208±0.055±0.034	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV

$\Gamma(K_2^*(1430)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{104}/Γ_{23}

Unseen decay modes of the $\overline{K}_2^*(1430)^-$ are included.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.15	90	ALBRECHT	93D	ARG	$e^+e^-\approx 10$ GeV

$\Gamma(\overline{K}^0\pi^+\pi^-$ nonresonant$)/\Gamma(\overline{K}^0\pi^+\pi^-)$ Γ_{30}/Γ_{23}

VALUE	DOCUMENT ID		TECN	COMMENT
0.27 ±0.04 OUR AVERAGE				
0.263±0.024±0.041	ANJOS	93	E691	γ Be 90–260 GeV
0.26 ±0.08 ±0.05	FRABETTI	92B	E687	γ Be $\overline{E}_\gamma = 221$ GeV
0.33 ±0.05 ±0.10	ADLER	87	MRK3	e^+e^- 3.77 GeV

$\Gamma(K^-\pi^+\pi^0)/\Gamma_{\text{total}}$ Γ_{31}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.138 ±0.010 OUR FIT Error includes scale factor of 1.1.					
0.131 ±0.016 OUR AVERAGE					
0.133 ±0.012 ±0.013	931	ADLER	88C	MRK3	e^+e^- 3.77 GeV
0.117 ±0.043	37	[33] SCHINDLER	81	MRK2	e^+e^- 3.771 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$0.0912\ ^{+0.0173}_{-0.0165}$		[34] BARLAG	92C	ACCM	π^- Cu 230 GeV
$0.106\ ^{+0.061}_{-0.028}$ ±0.006	5	[34] AGUILAR-...	87F	HYBR	πp, pp 360, 400 GeV

[33] SCHINDLER 81 (MARK-2) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.68 ± 0.23. We use the MARK-3 (ADLER 88C) value of $\sigma = 5.8 \pm 0.5 \pm 0.6$ nb.

[34] AGUILAR-BENITEZ 87F and BARLAG 92C compute the branching fraction using topological normalization.

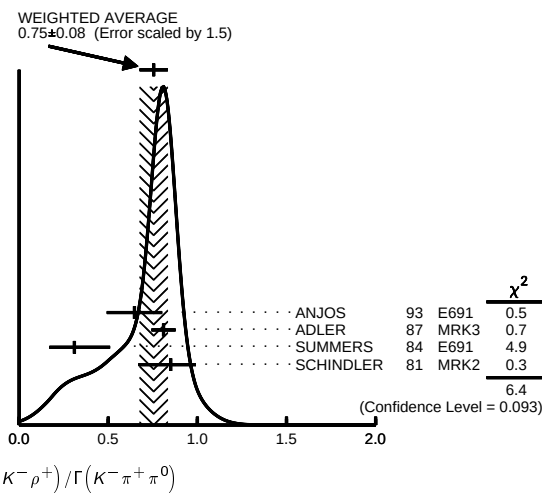
$\Gamma(K^-\pi^+\pi^0)/\Gamma(K^-\pi^+)$ Γ_{31}/Γ_{21}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
3.43±0.24 OUR FIT Error includes scale factor of 1.1.					
3.07±0.29 OUR AVERAGE					
3.04±0.16±0.34	931	[35] ALBRECHT	92P	ARG	$e^+e^- \approx 10$ GeV
4.0 ±0.9 ±1.0	69	ALVAREZ	91B	NA14	Photoproduction
2.8 ±0.14±0.52	1050	KINOSHITA	91	CLEO	$e^+e^- \sim 10.7$ GeV
4.2 ±1.4	41	SUMMERS	84	E691	Photoproduction

[35] This value is calculated from numbers in Table 1 of ALBRECHT 92P.

$\Gamma(K^-\rho^+)/\Gamma(K^-\pi^+\pi^0)$ Γ_{32}/Γ_{31}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.75 ±0.08 OUR AVERAGE Error includes scale factor of 1.5. See the ideogram below.					
0.647±0.039±0.150		ANJOS	93	E691	γ Be 90–260 GeV
0.81 ±0.03 ±0.06		ADLER	87	MRK3	e^+e^- 3.77 GeV
$0.31\ ^{+0.20}_{-0.14}$	13	SUMMERS	84	E691	Photoproduction
$0.85\ ^{+0.11}_{-0.15}\ ^{+0.09}_{-0.10}$	31	SCHINDLER	81	MRK2	e^+e^- 3.771 GeV



$\Gamma(K^*(892)^-\pi^+)/\Gamma(K^-\pi^+\pi^0)$ Γ_{81}/Γ_{31}

Unseen decay modes of the $K^*(892)^-$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.35 ±0.05 OUR FIT Error includes scale factor of 1.4.				
0.27 ±0.04 OUR AVERAGE				
0.252±0.033±0.035	ANJOS	93	E691	γ Be 90–260 GeV
0.36 ±0.06 ±0.09	ADLER	87	MRK3	e^+e^- 3.77 GeV

$\Gamma(\overline{K}^*(892)^0\pi^0)/\Gamma(K^-\pi^+\pi^0)$ Γ_{82}/Γ_{31}

Unseen decay modes of the $\overline{K}^*(892)^0$ are included.

VALUE	DOCUMENT ID		TECN	COMMENT
0.219±0.031 OUR FIT				
0.208±0.035 OUR AVERAGE				
0.213±0.027±0.035	ANJOS	93	E691	γ Be 90–260 GeV
0.20 ±0.03 ±0.05	ADLER	87	MRK3	e^+e^- 3.77 GeV

$\Gamma(K^-\pi^+\pi^0$ nonresonant$)/\Gamma(K^-\pi^+\pi^0)$ Γ_{35}/Γ_{31}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.044±0.019 OUR AVERAGE Error includes scale factor of 1.1.					
0.036±0.004±0.018		ANJOS	93	E691	γ Be 90–260 GeV
0.09 ±0.02 ±0.04		ADLER	87	MRK3	e^+e^- 3.77 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.51 ±0.22	21	SUMMERS	84	E691	Photoproduction

$\Gamma(\overline{K}^*(892)^0\pi^0)/\Gamma(\overline{K}^0\pi^0)$ Γ_{82}/Γ_{22}

Unseen decay modes of the $\overline{K}^*(892)^0$ are included.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
1.47±0.26 OUR FIT Error includes scale factor of 1.1.					
$\mathbf{1.65^{+0.39}_{-0.31}\pm 0.20}$	122	PROCARIO	93B	CLEO	$\overline{K}^0\pi^0\pi^0$ Dalitz plot

$\Gamma(\overline{K}_2^*(1430)^0\pi^0)/\Gamma(\overline{K}^*(892)^0\pi^0)$ Γ_{105}/Γ_{82}

Unseen decay modes of the $\overline{K}_2^*(1430)^0$ and $\overline{K}^*(892)^0$ are included.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.12	90	PROCARIO	93B	CLEO	$\overline{K}^0\pi^0\pi^0$ Dalitz plot

$\Gamma(\overline{K}^0\pi^0\pi^0$ nonresonant$)/\Gamma(\overline{K}^0\pi^0)$ Γ_{38}/Γ_{22}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.37±0.08±0.04	76	PROCARIO	93B	CLEO	$\overline{K}^0\pi^0\pi^0$ Dalitz plot