## $D^0$ – THIS IS PART 2 OF 3

To reduce the size of this section's PostScript file, we have divided it into three PostScript files. We present the following index:

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## Hadronic modes with a $\overline{K}$ or $\overline{K}K\overline{K}$

### $\Gamma(K^-\pi^+)/\Gamma_{total}$ $\Gamma_{21}/\Gamma$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.0383±0.0012 OUR FIT** | | | | | |
| **0.0386±0.0014 OUR AVERAGE** | | | | | |
| 0.045 ±0.006 ±0.004 | | [30] ALBRECHT | 94 | ARG | $e^+e^- \approx \Upsilon(4S)$ |
| 0.0341±0.0012±0.0028 | 1173 | [31] ALBRECHT | 94F | ARG | $e^+e^- \approx \Upsilon(4S)$ |
| 0.0391±0.0008±0.0017 | 4208 | [31,32] AKERIB | 93 | CLEO | $e^+e^- \approx \Upsilon(4S)$ |
| 0.0362±0.0034±0.0044 | | [31] DECAMP | 91J | ALEP | From $Z$ decays |
| 0.045 ±0.008 ±0.005 | 56 | [31] ABACHI | 88 | HRS | $e^+e^-$ 29 GeV |
| 0.042 ±0.004 ±0.004 | 930 | ADLER | 88C | MRK3 | $e^+e^-$ 3.77 GeV |
| 0.041 ±0.006 | 263 | [33] SCHINDLER | 81 | MRK2 | $e^+e^-$ 3.771 GeV |
| 0.043 ±0.010 | 130 | [34] PERUZZI | 77 | MRK1 | $e^+e^-$ 3.77 GeV |

[30] ALBRECHT 94 uses $D^0$ mesons from $\overline{B}^0 \to D^{*+}\ell^-\overline{\nu}_\ell$ decays. This is a different set of events than used by ALBRECHT 94F.

[31] ABACHI 88, DECAMP 91J, AKERIB 93, and ALBRECHT 94F use $D^*(2010)^+ \to D^0\pi^+$ decays. The $\pi^+$ is both slow and of low $p_T$ with respect to the event thrust axis ($\approx D^{*+}$ direction). The excess number of such $\pi^+$'s over background gives the number of $D^*(2010)^+ \to D^0\pi^+$ events, and the fraction with $D^0 \to K^-\pi^+$ gives the $D^0 \to K^-\pi^+$ branching fraction.

[32] Radiative corrections increase this AKERIB 93 value to 0.0395 ± 0.0008 ± 0.0017.

[33] SCHINDLER 81 (MARK-2) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.24 ± 0.02 nb. We use the MARK-3 (ADLER 88C) value of $\sigma$ = 5.8 ± 0.5 ± 0.6 nb.

[34] PERUZZI 77 (MARK-1) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.25 ± 0.05 nb. We use the MARK-3 (ADLER 88C) value of $\sigma$ = 5.8 ± 0.5 ± 0.6 nb.

### $\Gamma(\overline{K}^0\pi^0)/\Gamma(K^-\pi^+)$ $\Gamma_{22}/\Gamma_{21}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.55±0.06 OUR FIT** Error includes scale factor of 1.1. | | | | | |
| **1.36±0.23±0.22** | 119 | ANJOS | 92B | E691 | $\gamma$Be 80–240 GeV |

### $\Gamma(\overline{K}^0\pi^0)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{22}/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.390±0.031 OUR FIT** | | | | | |
| **0.378±0.033 OUR AVERAGE** | | | | | |
| 0.44 ±0.02 ±0.05 | 1942 | PROCARIO | 93B | CLEO | $e^+e^-$ 10.36–10.7 GeV |
| 0.34 ±0.04 ±0.02 | 92 | [35] ALBRECHT | 92P | ARG | $e^+e^- \approx$ 10 GeV |
| 0.36 ±0.04 ±0.08 | 104 | KINOSHITA | 91 | CLEO | $e^+e^- \sim$ 10.7 GeV |

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

### $\Gamma(\overline{K}^0\pi^+\pi^-)/\Gamma_{total}$ $\Gamma_{23}/\Gamma$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.054 ±0.004 OUR FIT** Error includes scale factor of 1.2. | | | | | |
| **0.055 ±0.005 OUR AVERAGE** | | | | | |
| 0.0503±0.0039±0.0049 | 284 | [36] ALBRECHT | 94F | ARG | $e^+e^- \approx \Upsilon(4S)$ |
| 0.064 ±0.005 ±0.010 | | ADLER | 87 | MRK3 | $e^+e^-$ 3.77 GeV |
| 0.052 ±0.016 | 32 | [37] SCHINDLER | 81 | MRK2 | $e^+e^-$ 3.771 GeV |
| 0.079 ±0.023 | 28 | [38] PERUZZI | 77 | MRK1 | $e^+e^-$ 3.77 GeV |

[36] See the footnote on the ALBRECHT 94F measurement of $\Gamma(K^-\pi^+)/\Gamma_{total}$ for the method used.

[37] SCHINDLER 81 (MARK-2) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.30 ± 0.08 nb. We use the MARK-3 (ADLER 88C) value of $\sigma$ = 5.8 ± 0.5 ± 0.6 nb.

[38] PERUZZI 77 (MARK-1) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.46 ± 0.12 nb. We use the MARK-3 (ADLER 88C) value of $\sigma$ = 5.8 ± 0.5 ± 0.6 nb.

### $\Gamma(\overline{K}^0\pi^+\pi^-)/\Gamma(K^-\pi^+)$ $\Gamma_{23}/\Gamma_{21}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **1.41±0.11 OUR FIT** Error includes scale factor of 1.2. | | | | | |
| **1.65±0.17 OUR AVERAGE** | | | | | |
| 1.61±0.10±0.15 | 856 | FRABETTI | 94J | E687 | $\gamma$Be $\overline{E}_\gamma$=220 GeV |
| 1.7 ±0.8 | 35 | AVERY | 80 | SPEC | $\gamma N \to D^{*+}$ |
| 2.8 ±1.0 | 116 | PICCOLO | 77 | MRK1 | $e^+e^-$ 4.03, 4.41 GeV |

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.223±0.027 OUR AVERAGE** | Error includes scale factor of 1.2. | | | |
| 0.350±0.028±0.067 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.227±0.032±0.009 | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |
| 0.215±0.051±0.037 | ANJOS | 93 | E691 | $\gamma$Be 90–260 GeV |
| 0.20 ±0.06 ±0.03 | FRABETTI | 92B | E687 | $\gamma$Be $\overline{E}_\gamma = 221$ GeV |
| 0.12 ±0.01 ±0.07 | ADLER | 87 | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^0 f_0(980))/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{75}/\Gamma_{23}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.105±0.029 OUR AVERAGE** | | | | |
| 0.131±0.031±0.034 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.088±0.035±0.012 | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |

### $\Gamma(\overline{K}^0 f_2(1270))/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{79}/\Gamma_{23}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.076±0.028 OUR AVERAGE** | | | | |
| 0.065±0.025±0.030 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.088±0.037±0.014 | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |

### $\Gamma(\overline{K}^0 f_0(1370))/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{80}/\Gamma_{23}$

Unseen decay modes of the $f_0(1370)$ are included.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.13 ±0.04 OUR AVERAGE** | | | | |
| 0.123±0.035±0.049 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.131±0.045±0.021 | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |

### $\Gamma(K^*(892)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{82}/\Gamma_{23}$

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

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.93 ±0.04 OUR FIT** | Error includes scale factor of 1.1. | | | | |
| **0.96 ±0.04 OUR AVERAGE** | | | | | |
| 0.938±0.054±0.038 | | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 1.08 ±0.063±0.045 | | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |
| 0.720±0.145±0.185 | | ANJOS | 93 | E691 | $\gamma$Be 90–260 GeV |
| 0.96 ±0.12 ±0.075 | | FRABETTI | 92B | E687 | $\gamma$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 |

### $\Gamma(K_0^*(1430)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{104}/\Gamma_{23}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.19 ±0.05 OUR AVERAGE** | | | | |
| 0.176±0.044±0.047 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.208±0.055±0.034 | ALBRECHT | 93D | ARG | $e^+e^- \approx 10$ GeV |

### $\Gamma(K_2^*(1430)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{105}/\Gamma_{23}$

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

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

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

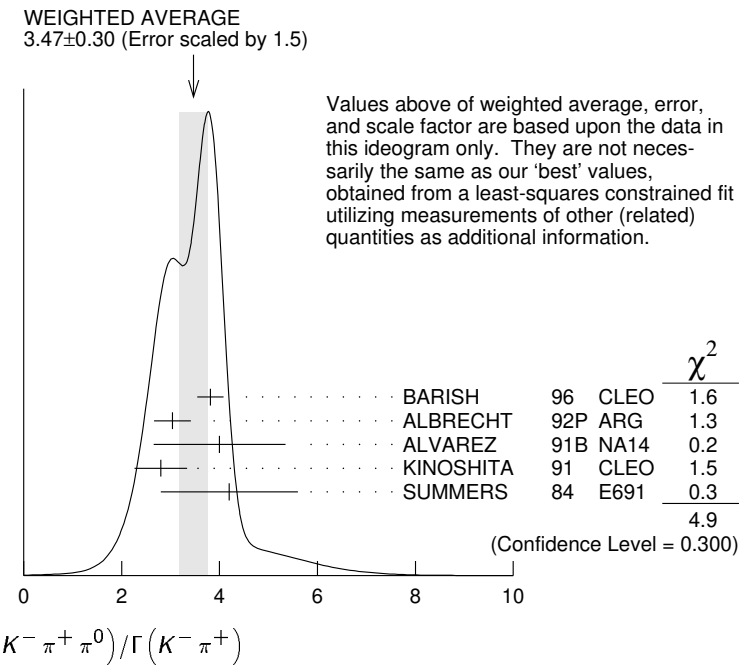
| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.139±0.009 OUR FIT** Error includes scale factor of 1.3. | | | | | |
| **0.131±0.016 OUR AVERAGE** | | | | | |
| 0.133±0.012±0.013 | 931 | ADLER | 88C | MRK3 | $e^+e^-$ 3.77 GeV |
| 0.117±0.043 | 37 | [39] SCHINDLER | 81 | MRK2 | $e^+e^-$ 3.771 GeV |

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

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

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **3.62±0.24 OUR FIT** Error includes scale factor of 1.4. | | | | | |
| **3.47±0.30 OUR AVERAGE** Error includes scale factor of 1.5. See the ideogram below. | | | | | |
| 3.81±0.07±0.26 | 10k | BARISH | 96 | CLEO | $e^+e^- \approx \Upsilon(4S)$ |
| 3.04±0.16±0.34 | 931 | [40] 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 |

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




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

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.78 ±0.05 OUR AVERAGE** | | | | | |
| 0.765±0.041±0.054 | | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx$ 220 GeV |
| 0.647±0.039±0.150 | | ANJOS | 93 | E691 | $\gamma$Be 90–260 GeV |
| 0.81 ±0.03 ±0.06 | | ADLER | 87 | MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| $0.31\ ^{+0.20}_{-0.14}$ | 13 | SUMMERS | 84 | E691 | Photoproduction |
| $0.85\ ^{+0.11}_{-0.15}\ ^{+0.09}_{-0.10}$ | 31 | SCHINDLER | 81 | MRK2 | $e^+e^-$ 3.771 GeV |

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

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.362±0.035 OUR FIT** Error includes scale factor of 1.3. | | | | |
| **0.28 ±0.04 OUR AVERAGE** | | | | |
| 0.444±0.084±0.147 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx$ 220 GeV |
| 0.252±0.033±0.035 | ANJOS | 93 | E691 | $\gamma$Be 90–260 GeV |
| 0.36 ±0.06 ±0.09 | ADLER | 87 | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^*(892)^0\pi^0)/\Gamma(K^-\pi^+\pi^0)$ $\Gamma_{83}/\Gamma_{31}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.227±0.027 OUR FIT** | | | | |
| **0.221±0.029 OUR AVERAGE** | | | | |
| 0.248±0.047±0.023 | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.213±0.027±0.035 | ANJOS | 93 | E691 | $\gamma$Be 90–260 GeV |
| 0.20 ±0.03 ±0.05 | ADLER | 87 | MRK3 | $e^+e^-$ 3.77 GeV |

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

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.049±0.018 OUR AVERAGE** | Error includes scale factor of 1.1. | | | | |
| 0.101±0.033±0.040 | | FRABETTI | 94G | E687 | $\gamma$Be, $\overline{E}_\gamma \approx 220$ GeV |
| 0.036±0.004±0.018 | | ANJOS | 93 | E691 | $\gamma$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 |

### $\Gamma(\overline{K}^*(892)^0\pi^0)/\Gamma(\overline{K}^0\pi^0)$ $\Gamma_{83}/\Gamma_{22}$

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

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **1.49±0.23 OUR FIT** | Error includes scale factor of 1.1. | | | | |
| $\mathbf{1.65^{+0.39}_{-0.31}\pm0.20}$ | 122 | PROCARIO | 93B | CLEO | $\overline{K}^0\pi^0\pi^0$ Dalitz plot |

### $\Gamma(\overline{K}_2^*(1430)^0\pi^0)/\Gamma(\overline{K}^*(892)^0\pi^0)$ $\Gamma_{106}/\Gamma_{83}$

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

| 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 |

### $\Gamma(K^-\pi^+\pi^+\pi^-)/\Gamma_{\text{total}}$ $\Gamma_{39}/\Gamma$

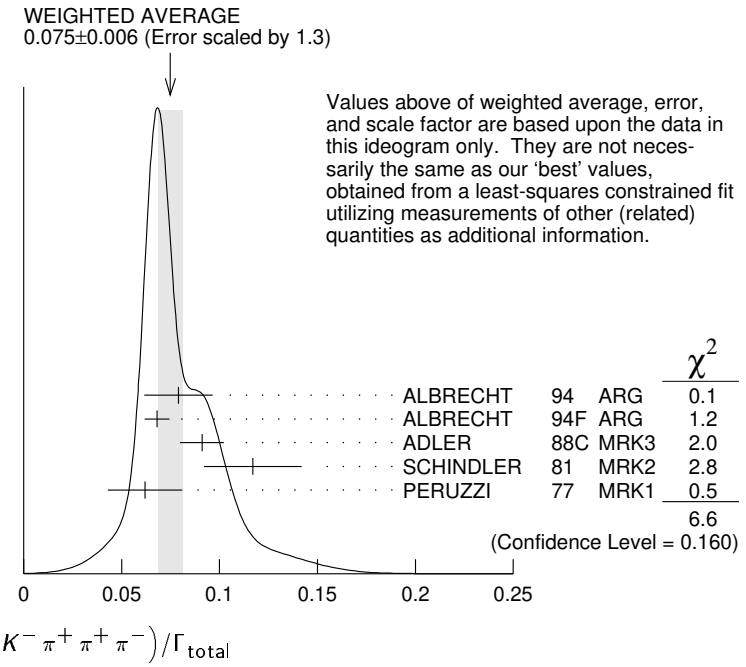
| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.075 ±0.004 OUR FIT** | Error includes scale factor of 1.1. | | | | |
| **0.075 ±0.006 OUR AVERAGE** | Error includes scale factor of 1.3. See the ideogram below. | | | | |
| 0.079 ±0.015 ±0.009 | | [41] ALBRECHT | 94 | ARG | $e^+e^- \approx \Upsilon(4S)$ |
| 0.0680±0.0027±0.0057 | 1430 | [42] ALBRECHT | 94F | ARG | $e^+e^- \approx \Upsilon(4S)$ |
| 0.091 ±0.008 ±0.008 | 992 | ADLER | 88C | MRK3 | $e^+e^-$ 3.77 GeV |
| 0.117 ±0.025 | 185 | [43] SCHINDLER | 81 | MRK2 | $e^+e^-$ 3.771 GeV |
| 0.062 ±0.019 | 44 | [44] PERUZZI | 77 | MRK1 | $e^+e^-$ 3.77 GeV |

[41] ALBRECHT 94 uses $D^0$ mesons from $\overline{B}^0 \to D^{*+}\ell^-\overline{\nu}_\ell$ decays. This is a different set of events than used by ALBRECHT 94F.

[42] See the footnote on the ALBRECHT 94F measurement of $\Gamma(K^-\pi^+)/\Gamma_{\text{total}}$ for the method used.

[43] SCHINDLER 81 (MARK-2) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.68 ± 0.11 nb. We use the MARK-3 (ADLER 88C) value of $\sigma = 5.8 \pm 0.5 \pm 0.6$ nb.

[44] PERUZZI 77 (MARK-1) measures $\sigma(e^+e^- \to \psi(3770)) \times$ branching fraction to be 0.36 ± 0.10 nb. We use the MARK-3 (ADLER 88C) value of $\sigma = 5.8 \pm 0.5 \pm 0.6$ nb.




## $\Gamma(K^-\pi^+\pi^+\pi^-)/\Gamma(K^-\pi^+)$ $\Gamma_{39}/\Gamma_{21}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **1.97±0.10 OUR FIT** | | | | | |
| **2.01±0.13 OUR AVERAGE** | | | | | |
| 1.7 ±0.2 ±0.2 | 1745 | ANJOS | 92C | E691 | γBe 90–260 GeV |
| 1.90±0.25±0.20 | 337 | ALVAREZ | 91B | NA14 | Photoproduction |
| 2.12±0.16±0.09 | | BORTOLETTO | 88 | CLEO | $e^+e^-$ 10.55 GeV |
| 2.0 ±0.9 | 48 | BAILEY | 86 | ACCM | $\pi^-$ Be fixed target |
| 2.17±0.28±0.23 | | ALBRECHT | 85F | ARG | $e^+e^-$ 10 GeV |
| 2.0 ±1.0 | 10 | BAILEY | 83B | SPEC | $\pi^-$ Be → $D^0$ |
| 2.2 ±0.8 | 214 | PICCOLO | 77 | MRK1 | $e^+e^-$ 4.03, 4.41 GeV |

## $\Gamma(K^-\pi^+\rho^0\text{total})/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{40}/\Gamma_{39}$

This includes $K^-a_1(1260)^+$, $\overline{K}^*(892)^0\rho^0$, etc. The next entry gives the specifically 3-body fraction. We rely on the MARK III and E691 full amplitude analyses of the $K^-\pi^+\pi^+\pi^-$ channel for values of the resonant substructure.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.835±0.035 OUR AVERAGE** | | | | |
| 0.80 ±0.03 ±0.05 | ANJOS | 92C | E691 | γBe 90–260 GeV |
| 0.855±0.032±0.030 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 0.98 ±0.12 ±0.10 | ALVAREZ | 91B | NA14 | Photoproduction |

## $\Gamma(K^-\pi^+\rho^0\text{3-body})/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{41}/\Gamma_{39}$

We rely on the MARK III and E691 full amplitude analyses of the $K^-\pi^+\pi^+\pi^-$ channel for values of the resonant substructure.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.063±0.028 OUR AVERAGE** | | | | | |
| 0.05 ±0.03 ±0.02 | | ANJOS | 92C | E691 | γBe 90–260 GeV |
| 0.084±0.022±0.04 | | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.77 ±0.06 ±0.06 | [45] | ALVAREZ | 91B | NA14 | Photoproduction |
| $0.85\ ^{+0.11}_{-0.22}$ | 180 | PICCOLO | 77 | MRK1 | $e^+e^-$ 4.03, 4.41 GeV |

[45] This value is for $\rho^0$ $(K^-\pi^+)$-nonresonant. ALVAREZ 91B cannot determine what fraction of this is $K^-a_1(1260)^+$.

## $\Gamma(\overline{K}^*(892)^0\rho^0)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{88}/\Gamma_{39}$

Unseen decay modes of the $\overline{K}^*(892)^0$ are included. We rely on the MARK III and E691 full amplitude analyses of the $K^-\pi^+\pi^+\pi^-$ channel for values of the resonant substructure.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.195±0.03±0.03** | | ANJOS | 92C | E691 | γBe 90–260 GeV |

• • • We do not use the following data for averages, fits, limits, etc. • • •

| | | | | | |
|---|---|---|---|---|---|
| 0.34 ±0.09±0.09 | | ALVAREZ | 91B | NA14 | Photoproduction |
| 0.75 ±0.3 | 5 | BAILEY | 83B | SPEC | $\pi$ Be → $D^0$ |
| $0.15\ ^{+0.16}_{-0.15}$ | 20 | PICCOLO | 77 | MRK1 | $e^+e^-$ 4.03, 4.41 GeV |

### $\Gamma(\overline{K}^*(892)^0\rho^0$ transverse$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{89}/\Gamma_{39}$

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

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.20 ±0.07 OUR FIT** | | | |
| **0.213±0.024±0.075** | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^*(892)^0\rho^0$ $S$-wave$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{90}/\Gamma_{39}$

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

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.375±0.045±0.06** | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(\overline{K}^*(892)^0\rho^0$ $S$-wave long.$)/\Gamma_{\text{total}}$ $\Gamma_{91}/\Gamma$

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

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **<0.003** | 90 | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^*(892)^0\rho^0$ $P$-wave$)/\Gamma_{\text{total}}$ $\Gamma_{92}/\Gamma$

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

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **<0.003** | 90 | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| <0.009 | 90 | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(\overline{K}^*(892)^0\rho^0$ $D$-wave$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{93}/\Gamma_{39}$

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

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.255±0.045±0.06** | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(\overline{K}^*(892)^0 f_0(980))/\Gamma_{\text{total}}$ $\Gamma_{99}/\Gamma$

Unseen decay modes of the $\overline{K}^*(892)^0$ and $f_0(980)$ are included.

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **<0.007** | 90 | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(K^-a_1(1260)^+)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{77}/\Gamma_{39}$

Unseen decay modes of the $a_1(1260)^+$ are included.

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.97 ±0.14 OUR AVERAGE** | | | |
| 0.94 ±0.13 ±0.20 | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |
| 0.984±0.048±0.16 | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^-a_2(1320)^+)/\Gamma_{\text{total}}$ $\Gamma_{81}/\Gamma$

Unseen decay modes of the $a_2(1320)^+$ are included.

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **<0.002** | 90 | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| <0.006 | 90 | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K_1(1270)^-\pi^+)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{100}/\Gamma_{39}$

Unseen decay modes of the $K_1(1270)^-$ are included. The two experiments disagree considerably here.

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.14 ±0.04 OUR FIT** | | | | |
| **0.194±0.056±0.088** | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV | |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| <0.013 | 90 | ANJOS | 92C E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(K_1(1400)^-\pi^+)/\Gamma_{\text{total}}$ $\Gamma_{101}/\Gamma$

| VALUE | CL% | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **<0.012** | 90 | COFFMAN | 92B MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^*(1410)^-\pi^+)/\Gamma_{total}$ $\Gamma_{103}/\Gamma$

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **<0.012** | 90 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^*(892)^0\pi^+\pi^-$ total$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{84}/\Gamma_{39}$

This includes $\overline{K}^*(892)^0\rho^0$, *etc.* The next entry gives the specifically 3-body fraction. Unseen decay modes of the $\overline{K}^*(892)^0$ are included.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.30±0.06±0.03** | ANJOS | 92C | E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(\overline{K}^*(892)^0\pi^+\pi^-$ 3-body$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{85}/\Gamma_{39}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.19 ±0.04 OUR FIT** | | | | |
| **0.18 ±0.04 OUR AVERAGE** | | | | |
| 0.165±0.03 ±0.045 | ANJOS | 92C | E691 | $\gamma$Be 90–260 GeV |
| 0.210±0.027±0.06 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^-\pi^+ f_0(980))/\Gamma_{total}$ $\Gamma_{98}/\Gamma$

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **<0.011** | 90 | ANJOS | 92C | E691 | $\gamma$Be 90–260 GeV |

### $\Gamma(K^-\pi^+\pi^+\pi^-$ nonresonant$)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{47}/\Gamma_{39}$

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.233±0.032 OUR AVERAGE** | | | | |
| 0.23 ±0.02 ±0.03 | ANJOS | 92C | E691 | $\gamma$Be 90–260 GeV |
| 0.242±0.025±0.06 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)/\Gamma_{total}$ $\Gamma_{48}/\Gamma$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.100±0.012 OUR FIT** | | | | | |
| **0.103±0.022±0.025** | 140 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| $0.134^{+0.032}_{-0.033}$ | | [46] BARLAG | 92C | ACCM | $\pi^-$ Cu 230 GeV |

[46] BARLAG 92C computes the branching fraction using topological normalization.

### $\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{48}/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **1.85±0.20 OUR FIT** | | | | | |
| **1.86±0.23 OUR AVERAGE** | | | | | |
| 1.80±0.20±0.21 | 190 | [47] ALBRECHT | 92P | ARG | $e^+e^- \approx 10$ GeV |
| 2.8 ±0.8 ±0.8 | 46 | ANJOS | 92C | E691 | $\gamma$Be 90–260 GeV |
| 1.85±0.26±0.30 | 158 | KINOSHITA | 91 | CLEO | $e^+e^- \sim 10.7$ GeV |

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

### $\Gamma(\overline{K}^0\eta)/\Gamma(K^-\pi^+)$ $\Gamma_{70}/\Gamma_{21}$

Unseen decay modes of the $\eta$ are included.

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| <0.64 | 90 | ALBRECHT | 89D | ARG | $e^+e^-$ 10 GeV |

### $\Gamma(\overline{K}^0\eta)/\Gamma(\overline{K}^0\pi^0)$ $\Gamma_{70}/\Gamma_{22}$

Unseen decay modes of the $\eta$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.33±0.04 OUR FIT** | | | | | |
| **0.32±0.04±0.03** | 225 | PROCARIO | 93B | CLEO | $\eta \to \gamma\gamma$ |

### $\Gamma(\overline{K}^0\eta)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{70}/\Gamma_{23}$

Unseen decay modes of the $\eta$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.130±0.017 OUR FIT** | | | | | |
| **0.14 ±0.02 ±0.02** | 80 | PROCARIO | 93B | CLEO | $\eta \to \pi^+\pi^-\pi^0$ |

### $\Gamma(\overline{K}^0\omega)/\Gamma(K^-\pi^+)$ $\Gamma_{73}/\Gamma_{21}$

Unseen decay modes of the $\omega$ are included.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.54±0.10 OUR FIT** | | | | |
| **1.00±0.36±0.20** | ALBRECHT | 89D | ARG | $e^+e^-$ 10 GeV |

### $\Gamma(\overline{K}^0\omega)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{73}/\Gamma_{23}$

Unseen decay modes of the $\omega$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.38±0.07 OUR FIT** | | | | | |
| **0.33±0.09 OUR AVERAGE** Error includes scale factor of 1.1. | | | | | |
| 0.29±0.08±0.05 | 16 | [48] ALBRECHT | 92P | ARG | $e^+e^-\approx$ 10 GeV |
| 0.54±0.14±0.16 | 40 | KINOSHITA | 91 | CLEO | $e^+e^-\sim$ 10.7 GeV |

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

### $\Gamma(\overline{K}^0\omega)/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{73}/\Gamma_{48}$

Unseen decay modes of the $\omega$ are included.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.21 ±0.04 OUR FIT** | | | | |
| **0.220±0.048±0.0116** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^0\eta'(958))/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{74}/\Gamma_{23}$

Unseen decay modes of the $\eta'(958)$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.32±0.04 OUR AVERAGE** | | | | | |
| 0.31±0.02±0.04 | 594 | PROCARIO | 93B | CLEO | $\eta'\to\eta\pi^+\pi^-$, $\rho^0\gamma$ |
| 0.37±0.13±0.06 | 18 | [49] ALBRECHT | 92P | ARG | $e^+e^-\approx$ 10 GeV |

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

### $\Gamma(K^*(892)^-\rho^+)/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{94}/\Gamma_{48}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.606±0.188±0.126** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^*(892)^-\rho^+\text{ longitudinal})/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{95}/\Gamma_{48}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.290±0.111** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^*(892)^-\rho^+\text{ transverse})/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{96}/\Gamma_{48}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.317±0.180** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^*(892)^-\rho^+ P\text{-wave})/\Gamma_{\text{total}}$ $\Gamma_{97}/\Gamma$

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

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **<0.015** | 90 | [50] COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

[50] Obtained using other $\overline{K}^*(892)\rho$ $P$-wave limits and isospin relations.

### $\Gamma(\overline{K}^*(892)^0\rho^0\text{ transverse})/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{89}/\Gamma_{48}$

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

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.15 ±0.06 OUR FIT** | | | | |
| **0.126±0.111** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^0 a_1(1260)^0)/\Gamma_{\text{total}}$ $\Gamma_{78}/\Gamma$

Unseen decay modes of the $a_1(1260)^0$ are included.

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **<0.019** | 90 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K_1(1270)^-\pi^+)/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{100}/\Gamma_{48}$

Unseen decay modes of the $K_1(1270)^-$ are included.

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.106±0.028 OUR FIT** | | | | |
| **0.10 ±0.03** | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}_1(1400)^0\pi^0)/\Gamma_{\text{total}}$ $\Gamma_{102}/\Gamma$

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **<0.037** | 90 | COFFMAN | 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^*(892)^0\pi^+\pi^-\text{ 3-body})/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{85}/\Gamma_{48}$

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

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.14 ±0.04 OUR FIT** Error includes scale factor of 1.1. | | | |
| **0.191±0.105** | COFFMAN 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(\overline{K}^0\pi^+\pi^-\pi^0\text{nonresonant})/\Gamma(\overline{K}^0\pi^+\pi^-\pi^0)$ $\Gamma_{55}/\Gamma_{48}$

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.210±0.147±0.150** | COFFMAN 92B | MRK3 | $e^+e^-$ 3.77 GeV |

### $\Gamma(K^-\pi^+\pi^0\pi^0)/\Gamma_{\text{total}}$ $\Gamma_{56}/\Gamma$

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.149±0.037±0.030** | 24 | [51] ADLER 88C | MRK3 | $e^+e^-$ 3.77 GeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 0.177±0.029 | | [52] BARLAG 92C | ACCM | $\pi^-$ Cu 230 GeV |
| $0.209^{+0.074}_{-0.043}\pm0.012$ | 9 | [52] AGUILAR-... 87F | HYBR | $\pi p$, $pp$ 360, 400 GeV |

[51] ADLER 88C uses an absolute normalization method finding this decay channel opposite a detected $\overline{D}^0 \to K^+\pi^-$ in pure $D\overline{D}$ events.

[52] AGUILAR-BENITEZ 87F and BARLAG 92C compute the branching fraction using topological normalization. They do not distinguish the presence of a third $\pi^0$, and thus are not included in the average.

### $\Gamma(K^-\pi^+\pi^+\pi^-\pi^0)/\Gamma(K^-\pi^+)$ $\Gamma_{57}/\Gamma_{21}$

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **1.06±0.10 OUR FIT** | | | | |
| **0.98±0.11±0.11** | 225 | [53] ALBRECHT 92P | ARG | $e^+e^- \approx 10$ GeV |

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

### $\Gamma(K^-\pi^+\pi^+\pi^-\pi^0)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{57}/\Gamma_{39}$

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.54±0.05 OUR FIT** | | | | |
| **0.56±0.07 OUR AVERAGE** | | | | |
| $0.55\pm0.07^{+0.12}_{-0.09}$ | 167 | KINOSHITA 91 | CLEO | $e^+e^- \sim 10.7$ GeV |
| 0.57±0.06±0.05 | 180 | ANJOS 90D | E691 | Photoproduction |

### $\Gamma(\overline{K}^*(892)^0\pi^+\pi^-\pi^0)/\Gamma(K^-\pi^+\pi^+\pi^-\pi^0)$ $\Gamma_{107}/\Gamma_{57}$

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

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| **0.45±0.15±0.15** | ANJOS 90D | E691 | Photoproduction |

### $\Gamma(\overline{K}^*(892)^0\eta)/\Gamma(K^-\pi^+)$ $\Gamma_{108}/\Gamma_{21}$

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

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.49±0.12 OUR FIT** | | | | |
| $\mathbf{0.58\pm0.19^{+0.24}_{-0.28}}$ | 46 | KINOSHITA 91 | CLEO | $e^+e^- \sim 10.7$ GeV |

### $\Gamma(\overline{K}^*(892)^0\eta)/\Gamma(K^-\pi^+\pi^0)$ $\Gamma_{108}/\Gamma_{31}$

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

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.134±0.034 OUR FIT** | | | | |
| **0.13 ±0.02 ±0.03** | 214 | PROCARIO 93B | CLEO | $\overline{K}^{*0}\eta \to K^-\pi^+/\gamma\gamma$ |

### $\Gamma(K^-\pi^+\omega)/\Gamma(K^-\pi^+)$ $\Gamma_{109}/\Gamma_{21}$

Unseen decay modes of the $\omega$ are included.

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.78±0.12±0.10** | 99 | [54] ALBRECHT 92P | ARG | $e^+e^- \approx 10$ GeV |

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

### $\Gamma(\overline{K}^*(892)^0\omega)/\Gamma(K^-\pi^+)$ $\Gamma_{110}/\Gamma_{21}$

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

| VALUE | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|---|
| **0.28±0.11±0.04** | 17 | [55] ALBRECHT 92P | ARG | $e^+e^- \approx 10$ GeV |

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

### $\Gamma(\overline{K}^*(892)^0\omega)/\Gamma(K^-\pi^+\pi^+\pi^-\pi^0)$ $\Gamma_{110}/\Gamma_{57}$

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

| VALUE | CL% | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| <0.44 | 90 | [56] ANJOS | 90D | E691 | Photoproduction |

[56] Recovered from the published limit, $\Gamma(\overline{K}^*(892)^0\omega)/\Gamma_{\text{total}}$, in order to make our normalization consistent.

### $\Gamma(K^-\pi^+\eta'(958))/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{111}/\Gamma_{39}$

Unseen decay modes of the $\eta'(958)$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.093±0.014±0.019** | 286 | PROCARIO | 93B | CLEO | $\eta' \to \eta\pi^+\pi^-, \rho^0\gamma$ |

### $\Gamma(\overline{K}^*(892)^0\eta'(958))/\Gamma(K^-\pi^+\eta'(958))$ $\Gamma_{112}/\Gamma_{111}$

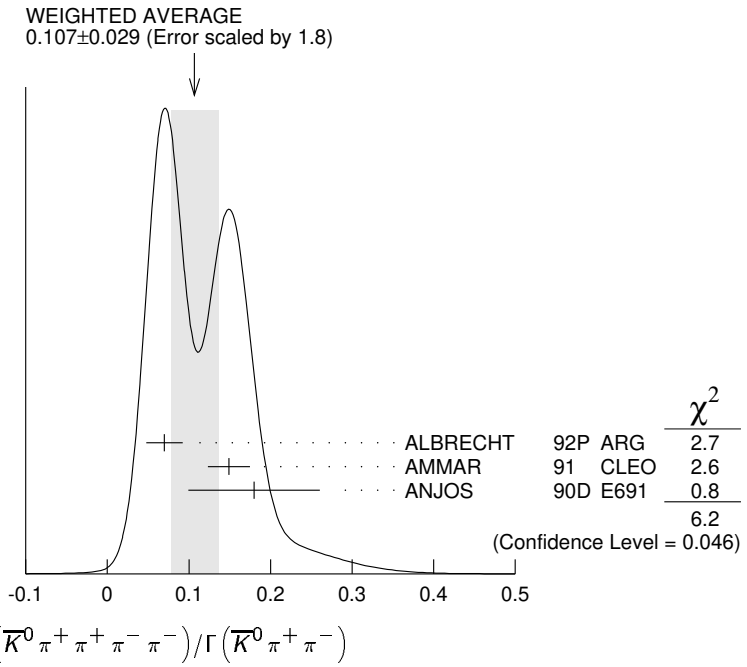
Unseen decay modes of the $\overline{K}^*(892)^0$ are included.

| VALUE | CL% | DOCUMENT ID | | TECN |
|---|---|---|---|---|
| **<0.15** | 90 | PROCARIO | 93B | CLEO |

### $\Gamma(\overline{K}^0\pi^+\pi^+\pi^-\pi^-)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{62}/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.107±0.029 OUR AVERAGE** | | Error includes scale factor of 1.8. See the ideogram below. | | | |
| 0.07 ±0.02 ±0.01 | 11 | [57] ALBRECHT | 92P | ARG | $e^+e^- \approx$ 10 GeV |
| 0.149±0.026 | 56 | AMMAR | 91 | CLEO | $e^+e^- \approx$ 10.5 GeV |
| 0.18 ±0.07 ±0.04 | 6 | ANJOS | 90D | E691 | Photoproduction |

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




### $\Gamma(\overline{K}^0\pi^+\pi^-\pi^0\pi^0(\pi^0))/\Gamma_{\text{total}}$ $\Gamma_{63}/\Gamma$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| $\mathbf{0.106^{+0.073}_{-0.029}\pm0.006}$ | 4 | [58] AGUILAR-... | 87F | HYBR | $\pi p$, $pp$ 360, 400 GeV |

[58] AGUILAR-BENITEZ 87F computes the branching fraction using topological normalization, and does not distinguish the presence of a third $\pi^0$.

### $\Gamma(\overline{K}^0K^+K^-)/\Gamma(\overline{K}^0\pi^+\pi^-)$ $\Gamma_{64}/\Gamma_{23} = (\Gamma_{66}+\frac{1}{2}\Gamma_{76})/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.172±0.014 OUR FIT** | | | | | |
| **0.178±0.019 OUR AVERAGE** | | | | | |
| 0.20 ±0.05 ±0.04 | 47 | FRABETTI | 92B | E687 | $\gamma$Be $\overline{E}_\gamma$= 221 GeV |
| 0.170±0.022 | 136 | AMMAR | 91 | CLEO | $e^+e^- \approx$ 10.5 GeV |
| 0.24 ±0.08 | | BEBEK | 86 | CLEO | $e^+e^-$ near $\Upsilon(4S)$ |
| 0.185±0.055 | 52 | ALBRECHT | 85B | ARG | $e^+e^-$ 10 GeV |

### $\Gamma(\overline{K^0}\phi)/\Gamma(\overline{K^0}\pi^+\pi^-)$ $\Gamma_{76}/\Gamma_{23}$

Unseen decay modes of the $\phi$ are included.

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.158±0.016 OUR FIT** | | | | | |
| **0.156±0.017 OUR AVERAGE** | | | | | |
| 0.13 ±0.06 ±0.02 | 13 | FRABETTI | 92B | E687 | $\gamma$Be $\overline{E}_\gamma$= 221 GeV |
| 0.163±0.023 | 63 | AMMAR | 91 | CLEO | $e^+e^-$ ≈ 10.5 GeV |
| 0.155±0.033 | 56 | ALBRECHT | 87E | ARG | $e^+e^-$ 10 GeV |
| 0.14 ±0.05 | 29 | BEBEK | 86 | CLEO | $e^+e^-$ near $\Upsilon(4S)$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.186±0.052 | 26 | ALBRECHT | 85B | ARG | See ALBRECHT 87E |

### $\Gamma(\overline{K^0}K^+K^-\text{non-}\phi)/\Gamma(\overline{K^0}\pi^+\pi^-)$ $\Gamma_{66}/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.093±0.014 OUR FIT** | | | | | |
| **0.088±0.019 OUR AVERAGE** | | | | | |
| 0.11 ±0.04 ±0.03 | 20 | FRABETTI | 92B | E687 | $\gamma$Be $\overline{E}_\gamma$= 221 GeV |
| 0.084±0.020 | | ALBRECHT | 87E | ARG | $e^+e^-$ 10 GeV |

### $\Gamma(K^0_S K^0_S K^0_S)/\Gamma(\overline{K^0}\pi^+\pi^-)$ $\Gamma_{67}/\Gamma_{23}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.018±0.004 OUR AVERAGE** | | | | | |
| 0.035±0.012±0.006 | 10 | FRABETTI | 94J | E687 | $\gamma$Be $\overline{E}_\gamma$=220 GeV |
| 0.016±0.005 | 22 | AMMAR | 91 | CLEO | $e^+e^-$ ≈ 10.5 GeV |
| 0.017±0.007±0.005 | 5 | ALBRECHT | 90C | ARG | $e^+e^-$ ≈ 10 GeV |

### $\Gamma(K^+K^-K^-\pi^+)/\Gamma(K^-\pi^+\pi^+\pi^-)$ $\Gamma_{68}/\Gamma_{39}$

| VALUE | EVTS | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| **0.0028±0.0007±0.0001** | 20 | FRABETTI | 95C | E687 | $\gamma$Be, $\overline{E}_\gamma$ ≈ 200 GeV |

### $\Gamma(K^+K^-\overline{K^0}\pi^0)/\Gamma_{\text{total}}$ $\Gamma_{69}/\Gamma$

| VALUE | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| $\mathbf{0.0072^{+0.0048}_{-0.0035}}$ | [59] BARLAG | 92C | ACCM | $\pi^-$ Cu 230 GeV |

[59] BARLAG 92C computes the branching fraction using topological normalization.