$\Gamma(h^-\nu_\tau)/\Gamma_{\rm total}$ — $\Gamma_6/\Gamma = (\Gamma_7+\Gamma_9+\frac{1}{3}\Gamma_{41})/\Gamma$

Inclusion of the $\frac{1}{3}$B($\tau^- \to K^*(892)^-\nu_\tau$) corrects, at <0.26% level, for undetected K^0_L's, which are predominately from $K^*(892)^-$ decay.

Data marked "avg" are highly correlated with data appearing elsewhere in the Listings, and are therefore used for the average given below but not in the overall fits. "f&a" marks results used for the fit and the average.

VALUE (%)		EVTS	DOCUMENT ID		TECN	COMMENT
12.88±0.34 OUR FIT Error includes scale factor of 1.2.						
12.47±0.33 OUR AVERAGE						
12.4 ±0.7 ±0.7	f&a	283	[25] ABREU	92N	DLPH	$E^{ee}_{\rm cm}$= 88.2–94.2 GeV
13.32±0.44±0.33	f&a		[26] DECAMP	92C	ALEP	$E^{ee}_{\rm cm}$= 88–95 GeV
12.1 ±0.7 ±0.5	f&a	309	ALEXANDER	91D	OPAL	$E^{ee}_{\rm cm}$= 88.3–94.3 GeV
12.3 ±0.9 ±0.5	f&a	1338	BEHREND	90	CELL	$E^{ee}_{\rm cm}$= 35 GeV
11.1 ±1.1 ±1.4	f&a		[27] BURCHAT	87	MRK2	$E^{ee}_{\rm cm}$= 29 GeV
11.3 ±0.5 ±0.8	avg	798	[28] FORD	87	MAC	$E^{ee}_{\rm cm}$= 29 GeV
12.3 ±0.6 ±1.1	avg	328	[29] BARTEL	86D	JADE	$E^{ee}_{\rm cm}$= 34.6 GeV
13.0 ±2.0 ±4.0	f&a		BERGER	85	PLUT	$E^{ee}_{\rm cm}$= 34.6 GeV
11.2 ±1.7 ±1.2	f&a	34	[30] BEHREND	83C	CELL	$E^{ee}_{\rm cm}$= 34 GeV

[25] ABREU 92 with 0.5% added to remove their correction for $K^*(892)^-$ backgrounds.
[26] DECAMP 92C consider $\tau^- \to h^-(K^0_S \to \pi^+\pi^-)\nu$ to be a 1-prong mode, which affects their 1-prong topological branching ratio relative to other experiments.
[27] BURCHAT 87 with 1.1% added to remove their correction for K^- and $K^*(892)^-$ backgrounds.
[28] FORD 87 result for B($\pi^-\nu_\tau$) with 0.67% added to remove their K^- correction and adjusted for 1992 B("1 prong").
[29] BARTEL 86D result for B($\pi^-\nu_\tau$) with 0.59% added to remove their K^- correction and adjusted for 1992 B("1 prong").
[30] BEHREND 83C quote B($\pi^-\nu_\tau$) = 9.9 ± 1.7 ± 1.3 after subtracting 1.3 ± 0.5 to correct for B($K^-\nu_\tau$).

$\Gamma(h^-\nu_\tau)/\Gamma(\text{particle}^- \geq 0\text{ neutrals }\nu_\tau\text{ ("1-prong")})$ — $\Gamma_6/\Gamma_1 = (\Gamma_7+\Gamma_9+\frac{1}{3}\Gamma_{41})/(\Gamma_2+\Gamma_4+\Gamma_7+\Gamma_9+\Gamma_{13}+\Gamma_{16}+\Gamma_{18}+\Gamma_{19}+0.771\Gamma_{41})$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.151±0.004 OUR FIT Error includes scale factor of 1.2.					
0.135±0.009 OUR AVERAGE					
0.131±0.006±0.009	798	[31] FORD	87	MAC	$E^{ee}_{\rm cm}$= 29 GeV
0.143±0.007±0.013	328	[32] BARTEL	86D	JADE	$E^{ee}_{\rm cm}$= 34.6 GeV

[31] FORD 87 result divided by 0.865, their assumed value for B("1 prong").
[32] BARTEL 86D result with 0.6% added to remove their K^- correction and then divided by 0.866, their assumed value for B("1 prong").

$\Gamma(h^-\nu_\tau)/\Gamma(e^-\overline{\nu}_e\nu_\tau)$ — $\Gamma_6/\Gamma_4 = (\Gamma_7+\Gamma_9+\frac{1}{3}\Gamma_{41})/\Gamma_4$

VALUE	DOCUMENT ID		TECN	COMMENT
0.715±0.021 OUR FIT Error includes scale factor of 1.2.				
0.678±0.037±0.044	ALBRECHT	92D	ARG	$E^{ee}_{\rm cm}$= 9.4–10.6 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.647±0.039±0.061	[33] BARTEL	86D	JADE	$E^{ee}_{\rm cm}$= 34.6 GeV

[33] Combined result of BARTEL 86D $e\nu\overline{\nu}$, $\mu\nu\overline{\nu}$, and $\pi^-\nu$ assuming B($\mu\nu\overline{\nu}$)/B($e\nu\overline{\nu}$) = 0.973.

$\Gamma(\pi^-\nu_\tau)/\Gamma_{\rm total}$ — Γ_7/Γ

VALUE (%)	EVTS	DOCUMENT ID		TECN	COMMENT
11.7±0.4 OUR FIT Error includes scale factor of 1.3.					
11.7±0.4±1.8	1138	BLOCKER	82D	MRK2	$E^{ee}_{\rm cm}$= 3.5–6.7 GeV

$\Gamma(K^- \geq 0\text{ neutrals }\nu_\tau)/\Gamma_{\rm total}$ — $\Gamma_8/\Gamma = (\Gamma_9+\Gamma_{10})/\Gamma$

VALUE (%)	EVTS	DOCUMENT ID		TECN	COMMENT
1.68±0.24 OUR AVERAGE					
1.6 ±0.4 ±0.2	35	AIHARA	87B	TPC	$E^{ee}_{\rm cm}$= 29 GeV
1.71±0.29	53	MILLS	84	DLCO	$E^{ee}_{\rm cm}$= 29 GeV

$\Gamma(K^-\nu_\tau)/\Gamma_{\rm total}$ — Γ_9/Γ

VALUE (%)	EVTS	DOCUMENT ID		TECN	COMMENT
0.67±0.23 OUR FIT Error includes scale factor of 1.3.					
0.67±0.23 OUR AVERAGE Error includes scale factor of 1.3.					
0.59±0.18	16	MILLS	84	DLCO	$E^{ee}_{\rm cm}$= 29 GeV
1.3 ±0.5	15	BLOCKER	82B	MRK2	$E^{ee}_{\rm cm}$= 3.9–6.7 GeV

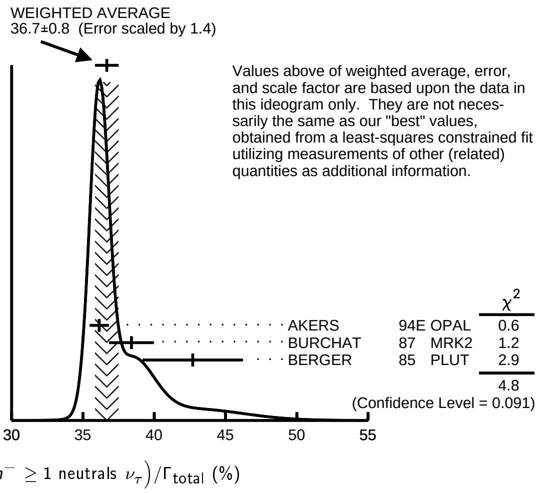
$\Gamma(K^- \geq 1\text{ neutrals }\nu_\tau)/\Gamma_{\rm total}$ — Γ_{10}/Γ

VALUE (%)	EVTS	DOCUMENT ID		TECN	COMMENT
$1.2\pm0.5^{+0.2}_{-0.4}$	9	AIHARA	87B	TPC	$E^{ee}_{\rm cm}$= 29 GeV

$\Gamma(h^- \geq 1\text{ neutrals }\nu_\tau)/\Gamma_{\rm total}$ — $\Gamma_{11}/\Gamma = (\Gamma_{13}+\Gamma_{16}+\Gamma_{18}+\Gamma_{19}+0.438\Gamma_{41})/\Gamma$

VALUE (%)	DOCUMENT ID		TECN	COMMENT
36.9 ±0.4 OUR FIT Error includes scale factor of 1.3.				
36.7 ±0.8 OUR AVERAGE Error includes scale factor of 1.4. See the ideogram below.				
36.14±0.33±0.58	AKERS	94E	OPAL	1991–1992 LEP runs
38.4 ±1.2 ±1.0	[34] BURCHAT	87	MRK2	$E^{ee}_{\rm cm}$= 29 GeV
42.7 ±2.0 ±2.9	BERGER	85	PLUT	$E^{ee}_{\rm cm}$= 34.6 GeV

[34] BURCHAT 87 quote for B($\pi^\pm \geq 1$ neutralν_τ) = 0.378 ± 0.012 ± 0.010. We add 0.006 to account for contribution from ($K^{*-}\nu_\tau$) which they fixed at BR = 0.013.



$\Gamma(h^-\pi^0\nu_\tau)/\Gamma_{\rm total}$ — $\Gamma_{12}/\Gamma = (\Gamma_{13}+\frac{1}{3}\Gamma_{41})/\Gamma$

Inclusion of the $\frac{1}{3}$B($\tau^- \to K^*(892)^-\nu_\tau$) corrects, at <0.26% level, for $K^-\pi^0$ from $K^*(892)$ decays.

VALUE (%)	EVTS	DOCUMENT ID		TECN	COMMENT
25.7 ±0.4 OUR FIT Error includes scale factor of 1.7.					
25.4 ±0.5 OUR AVERAGE Error includes scale factor of 1.7. See the ideogram below.					
26.25±0.36±0.52		AKERS	94E	OPAL	1991–1992 LEP runs
26.22±0.12±0.42	51k	[35] ARTUSO	94	CLEO	$E^{ee}_{\rm cm}$= 10.6 GeV
22.9 ±0.8 ±1.3	283	[36] ABREU	92N	DLPH	$E^{ee}_{\rm cm}$= 88.2–94.2 GeV
23.1 ±0.4 ±0.9	1249	[37] ALBRECHT	92Q	ARG	$E^{ee}_{\rm cm}$= 10 GeV
25.02±0.64±0.88	1849	DECAMP	92C	ALEP	$E^{ee}_{\rm cm}$= 88–95 GeV
22.0 ±0.8 ±1.9	779	ANTREASYAN	91	CBAL	$E^{ee}_{\rm cm}$= 9.4–10.6 GeV
22.6 ±1.5 ±0.7	1101	BEHREND	90	CELL	$E^{ee}_{\rm cm}$= 35 GeV
23.1 ±1.9 ±1.6		BEHREND	84	CELL	$E^{ee}_{\rm cm}$= 14,22 GeV

[35] ARTUSO 94 reports the combined result from three independent methods, one of which (23% of the $\tau^- \to h^-\pi^0\nu_\tau$) is normalized to the inclusive one-prong branching fraction, taken as 0.854 ± 0.004. Renormalization to the present value causes negligible change. We add 0.35% to the published result to include $\tau^- \to h^-\pi^0 K_L\nu_\tau$.
[36] ABREU 92 with 0.5% added to remove their correction for $K^*(892)^-$ backgrounds.
[37] ALBRECHT 92Q with 0.5% added to remove their correction for $\tau^- \to K^*(892)^-\nu_\tau$ background.