$B^{\pm}$ – THIS IS PART 2 OF 2

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

PART 1

PART 2

$\Gamma(J/\psi(1S)K^+)/\Gamma_{total}$ Γ_{53}/Γ

VALUE (units 10^{-4})	EVTS	DOCUMENT ID		TECN	COMMENT
10.1 ± 1.4 OUR AVERAGE					
11.0 ± 1.5 ±0.9	59	[100] ALAM	94	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$
9.16± 3.01±0.30		[101] BORTOLETTO	92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
8.0 ± 3.5 ±0.3	6	[102] ALBRECHT	90J	ARG	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
22 ±10 ±2		BUSKULIC	92G	ALEP	$e^+e^- \rightarrow Z$
7 ± 4	3	[103] ALBRECHT	87D	ARG	$e^+e^- \rightarrow \Upsilon(4S)$
10 ± 7 ±2	3	[104] BEBEK	87	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
9 ± 5	3	[105] ALAM	86	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

[100] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[101] BORTOLETTO 92 reports $8 \pm 2 \pm 2$ for $B(J/\psi(1S) \rightarrow e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \rightarrow e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[102] ALBRECHT 90J reports $7 \pm 3 \pm 1$ for $B(J/\psi(1S) \rightarrow e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \rightarrow e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[103] ALBRECHT 87D assume $B^+B^-/B^0\overline{B}^0$ ratio is 55/45. Superseded by ALBRECHT 90J.

[104] BEBEK 87 value has been updated in BERKELMAN 91 to use same assumptions as noted for BORTOLETTO 92.

[105] ALAM 86 assumes $B^{\pm}/B^0$ ratio is 60/40.

$\Gamma(J/\psi(1S)K^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{54}/Γ

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
0.0014 ±0.0006 OUR AVERAGE						
0.00137±0.00081±0.00004			[106] BORTOLETTO	92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
0.00137±0.00090±0.00004		6	[107] ALBRECHT	87D	ARG	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<0.0018	90		[108] ALBRECHT	90J	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[106] BORTOLETTO 92 reports $0.0012 \pm 0.0006 \pm 0.0004$ for $B(J/\psi(1S) \rightarrow e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \rightarrow e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[107] ALBRECHT 87D reports 0.0012 ± 0.0008 for $B(J/\psi(1S) \rightarrow e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \rightarrow e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. They actually report 0.0011 ± 0.0007 assuming $B^+B^-/B^0\overline{B}^0$ ratio is 55/45. We rescale to 50/50. Analysis explicitly removes $B^+ \rightarrow \psi(2S)K^+$.

[108] ALBRECHT 90J reports < 0.0016 for $B(J/\psi(1S) \rightarrow e^+e^-) = 0.069$. We rescale to our best value $B(J/\psi(1S) \rightarrow e^+e^-) = 0.0602$. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

$\Gamma(J/\psi(1S)K^*(892)^+)/\Gamma_{total}$ — Γ_{55}/Γ

For polarization information see the Listings at the end of the "B^0 Branching Ratios" section.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.00167±0.00035 OUR AVERAGE					
0.00158±0.00047±0.00027		[109] ABE	96H	CDF	$p\overline{p}$ at 1.8 TeV
0.00178±0.00051±0.00023	13	[110] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
0.00149±0.00107±0.00005		[111] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
0.0018 ±0.0013 ±0.0001	2	[112] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

[109] ABE 96H assumes that $B(B^+ \to J/\psi K^+) = (1.02 \pm 0.14) \times 10^{-3}$.

[110] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[111] BORTOLETTO 92 reports $0.0013 \pm 0.0009 \pm 0.0003$ for $B(J/\psi(1S) \to e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \to e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

[112] ALBRECHT 90J reports $0.0016 \pm 0.0011 \pm 0.0003$ for $B(J/\psi(1S) \to e^+e^-) = 0.069 \pm 0.009$. We rescale to our best value $B(J/\psi(1S) \to e^+e^-) = (6.02 \pm 0.19) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value. Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

$\Gamma(J/\psi(1S)K^*(892)^+)/\Gamma(J/\psi(1S)K^+)$ — Γ_{55}/Γ_{53}

VALUE	DOCUMENT ID		TECN	COMMENT
1.92±0.60±0.17	ABE	96Q	CDF	$p\overline{p}$

$\Gamma(J/\psi(1S)\pi^+)/\Gamma(J/\psi(1S)K^+)$ — Γ_{56}/Γ_{53}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.051±0.014 OUR AVERAGE					
$0.05\ ^{+0.019}_{-0.017} \pm 0.001$		ABE	96R	CDF	$p\overline{p}$ 1.8 TeV
0.052±0.024		BISHAI	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.043±0.023	5	[113] ALEXANDER	95	CLE2	Sup. by BISHAI 96

[113] Assumes equal production of B^+B^- and $B^0\overline{B}^0$ on $\Upsilon(4S)$.

$\Gamma(J/\psi(1S)\rho^+)/\Gamma_{total}$ — Γ_{57}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.7 \times 10^{-4}$	90	BISHAI	96	CLE2	$e^+e^- \to \Upsilon(4S)$

$\Gamma(J/\psi(1S)a_1(1260)^+)/\Gamma_{total}$ — Γ_{58}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.2 \times 10^{-3}$	90	BISHAI	96	CLE2	$e^+e^- \to \Upsilon(4S)$

$\Gamma(\psi(2S)K^+)/\Gamma_{total}$ — Γ_{59}/Γ

VALUE (units 10^{-4})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
6.9± 3.1 OUR AVERAGE Error includes scale factor of 1.3.						
6.1± 2.3±0.9		7	[114] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
18 ± 8 ±4		5	[114] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

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

<5	90		[114] BORTOLETTO	92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
22 ± 17		3	[115] ALBRECHT	87D	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[114] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.
[115] ALBRECHT 87D assume $B^+B^-/B^0\overline{B}^0$ ratio is 55/45. Superseded by ALBRECHT 90J.

$\Gamma(\psi(2S)K^*(892)^+)/\Gamma_{total}$ Γ_{60}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0030	90	[116] ALAM	94	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.0035	90	[116] BORTOLETTO	92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
<0.0049	90	[116] ALBRECHT	90J	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[116] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

$\Gamma(\psi(2S)K^*(892)^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{61}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.0019±0.0011±0.0004	3	[117] ALBRECHT	90J	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[117] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

$\Gamma(\chi_{c1}(1P)K^+)/\Gamma_{total}$ Γ_{62}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.0010 ±0.0004 OUR AVERAGE					
0.00097±0.00040±0.00009	6	[118] ALAM	94	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$
0.0019 ±0.0013 ±0.0006		[119] ALBRECHT	92E	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[118] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.
[119] ALBRECHT 92E assumes no $\chi_{c2}(1P)$ production and B($\Upsilon(4S) \rightarrow B^+B^-$) = 50%.

$\Gamma(\chi_{c1}(1P)K^*(892)^+)/\Gamma_{total}$ Γ_{63}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0021	90	[120] ALAM	94	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$

[120] Assumes equal production of B^+ and B^0 at the $\Upsilon(4S)$.

$\Gamma(K^0\pi^+)/\Gamma_{total}$ Γ_{64}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.8 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<1.9 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$
$<1.0 \times 10^{-4}$	90	[121] AVERY	89B	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
$<6.8 \times 10^{-4}$	90	AVERY	87	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

[121] AVERY 89B reports $< 9 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^+\pi^0)/\Gamma_{total}$ Γ_{65}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.4 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$

$\Gamma(K^*(892)^0 \pi^+)/\Gamma_{total}$ — Γ_{66}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.1 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+ e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<4.8 \times 10^{-4}$	90	[122] ABREU	95N	DLPH	$e^+ e^- \to Z$
$<1.7 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$
$<1.5 \times 10^{-4}$	90	[123] AVERY	89B	CLEO	$e^+ e^- \to \Upsilon(4S)$
$<2.6 \times 10^{-4}$	90	AVERY	87	CLEO	$e^+ e^- \to \Upsilon(4S)$

[122] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[123] AVERY 89B reports $< 1.3 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(892)^+ \pi^0)/\Gamma_{total}$ — Γ_{67}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.9 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^+ \pi^- \pi^+ \text{nonresonant})/\Gamma_{total}$ — Γ_{68}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.8 \times 10^{-5}$	90	BERGFELD	96B	CLE2	$e^+ e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<4.0 \times 10^{-4}$	90	[124] ABREU	95N	DLPH	$e^+ e^- \to Z$
$<3.3 \times 10^{-4}$	90	ALBRECHT	91E	ARG	$e^+ e^- \to \Upsilon(4S)$
$<1.9 \times 10^{-4}$	90	[125] AVERY	89B	CLEO	$e^+ e^- \to \Upsilon(4S)$

[124] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[125] AVERY 89B reports $< 1.7 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^- \pi^+ \pi^+ \text{nonresonant})/\Gamma_{total}$ — Γ_{69}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<5.6 \times 10^{-5}$	90	BERGFELD	96B	CLE2	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K_1(1400)^0 \pi^+)/\Gamma_{total}$ — Γ_{70}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.6 \times 10^{-3}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K_2^*(1430)^0 \pi^+)/\Gamma_{total}$ — Γ_{71}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6.8 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^+ \rho^0)/\Gamma_{total}$ — Γ_{72}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.9 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+ e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<1.9 \times 10^{-4}$	90	[126] ABREU	95N	DLPH	$e^+ e^- \to Z$
$<1.8 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$
$<8 \times 10^{-5}$	90	[127] AVERY	89B	CLEO	$e^+ e^- \to \Upsilon(4S)$
$<2.6 \times 10^{-4}$	90	AVERY	87	CLEO	$e^+ e^- \to \Upsilon(4S)$

[126] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[127] AVERY 89B reports $< 7 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^0 \rho^+)/\Gamma_{total}$ — Γ_{73}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.8 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^*(892)^+ \pi^+ \pi^-)/\Gamma_{total}$ — Γ_{74}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.1 \times 10^{-3}$	90	ALBRECHT	91E	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^*(892)^+ \rho^0)/\Gamma_{total}$ — Γ_{75}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.0 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K_1(1400)^+ \rho^0)/\Gamma_{total}$ — Γ_{76}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.8 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K_2^*(1430)^+ \rho^0)/\Gamma_{total}$ — Γ_{77}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.5 \times 10^{-3}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^+ K^- \pi^+ \text{ nonresonant})/\Gamma_{total}$ — Γ_{78}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.5 \times 10^{-5}$	90	BERGFELD	96B	CLE2	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^+ K^- K^+)/\Gamma_{total}$ — Γ_{79}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.1 \times 10^{-4}$	90	[128] ABREU	95N	DLPH	$e^+ e^- \to Z$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<3.5 \times 10^{-4}$	90	ALBRECHT	91E	ARG	$e^+ e^- \to \Upsilon(4S)$

[128] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.

$\Gamma(K^+ \phi)/\Gamma_{total}$ — Γ_{80}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.2 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+ e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<4.4 \times 10^{-4}$	90	[129] ABREU	95N	DLPH	$e^+ e^- \to Z$
$<1.8 \times 10^{-4}$	90	ALBRECHT	91B	ARG	$e^+ e^- \to \Upsilon(4S)$
$<9 \times 10^{-5}$	90	[130] AVERY	89B	CLEO	$e^+ e^- \to \Upsilon(4S)$
$<2.1 \times 10^{-4}$	90	AVERY	87	CLEO	$e^+ e^- \to \Upsilon(4S)$

[129] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.

[130] AVERY 89B reports $< 8 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^+ K^- K^+ \text{ nonresonant})/\Gamma_{total}$ — Γ_{81}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.8 \times 10^{-5}$	90	BERGFELD	96B	CLE2	$e^+ e^- \to \Upsilon(4S)$

$\Gamma(K^*(892)^+ K^+ K^-)/\Gamma_{\text{total}}$ Γ_{82}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<1.6 × 10^−3	90	ALBRECHT	91E	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

$\Gamma(K^*(892)^+ \phi)/\Gamma_{\text{total}}$ Γ_{83}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<7.0 × 10^−5	90	ASNER	96	CLE2	$e^+ e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<1.3 \times 10^{-3}$	90	ALBRECHT	91B	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

$\Gamma(K_1(1400)^+ \phi)/\Gamma_{\text{total}}$ Γ_{84}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<1.1 × 10^−3	90	ALBRECHT	91B	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

$\Gamma(K_2^*(1430)^+ \phi)/\Gamma_{\text{total}}$ Γ_{85}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<3.4 × 10^−3	90	ALBRECHT	91B	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

$\Gamma(K^+ f_0(980))/\Gamma_{\text{total}}$ Γ_{86}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<8 × 10^−5	90	[131] AVERY	89B	CLEO	$e^+ e^- \rightarrow \Upsilon(4S)$

[131] AVERY 89B reports $< 7 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(892)^+ \gamma)/\Gamma_{\text{total}}$ Γ_{87}/Γ

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
(5.7±3.1±1.1) × 10^−5		5	[132] AMMAR	93	CLE2	$e^+ e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$< 5.5 \times 10^{-4}$	90		[133] ALBRECHT	89G	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$
$< 5.5 \times 10^{-4}$	90		[134] AVERY	89B	CLEO	$e^+ e^- \rightarrow \Upsilon(4S)$
$< 1.8 \times 10^{-3}$	90		AVERY	87	CLEO	$e^+ e^- \rightarrow \Upsilon(4S)$

[132] AMMAR 93 observed 4.1 ± 2.3 events above background.
[133] Assumes the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$.
[134] Assumes the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$.

$\Gamma(K_1(1270)^+ \gamma)/\Gamma_{\text{total}}$ Γ_{88}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0073	90	[135] ALBRECHT	89G	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

[135] ALBRECHT 89G reports < 0.0066 assuming the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K_1(1400)^+ \gamma)/\Gamma_{\text{total}}$ Γ_{89}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0022	90	[136] ALBRECHT	89G	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

[136] ALBRECHT 89G reports < 0.0020 assuming the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K_2^*(1430)^+\gamma)/\Gamma_{total}$ — Γ_{90}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0014	90	[137] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[137] ALBRECHT 89G reports < 0.0013 assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(1680)^+\gamma)/\Gamma_{total}$ — Γ_{91}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0019	90	[138] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[138] ALBRECHT 89G reports < 0.0017 assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K_3^*(1780)^+\gamma)/\Gamma_{total}$ — Γ_{92}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0055	90	[139] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[139] ALBRECHT 89G reports < 0.005 assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K_4^*(2045)^+\gamma)/\Gamma_{total}$ — Γ_{93}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0099	90	[140] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[140] ALBRECHT 89G reports < 0.0090 assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+\pi^0)/\Gamma_{total}$ — Γ_{94}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.7 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.4 \times 10^{-4}$	90	[141] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$
$<2.3 \times 10^{-3}$	90	[142] BEBEK	87	CLEO	$e^+e^- \to \Upsilon(4S)$

[141] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.
[142] BEBEK 87 assume the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$.

$\Gamma(\pi^+\pi^+\pi^-)/\Gamma_{total}$ — Γ_{95}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.9 \times 10^{-4}$	90	[143] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.2 \times 10^{-4}$	90	[144] ABREU	95N	DLPH	$e^+e^- \to Z$
$<4.5 \times 10^{-4}$	90	[145] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[143] BORTOLETTO 89 reports $< 1.7 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[144] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[145] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\rho^0\pi^+)/\Gamma_{total}$ — Γ_{96}/Γ

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<4.3 × 10^{-5}	90		ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$<2.6 \times 10^{-4}$	90		[146] ABREU	95N	DLPH	$e^+e^- \to Z$
$<1.5 \times 10^{-4}$	90		[147] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$
$<1.7 \times 10^{-4}$	90		[148] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$
$<2.3 \times 10^{-4}$	90		[148] BEBEK	87	CLEO	$e^+e^- \to \Upsilon(4S)$
$<6 \times 10^{-4}$	90	0	GILES	84	CLEO	Repl. by BEBEK 87

[146] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[147] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.
[148] Papers assume the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+ f_0(980))/\Gamma_{total}$ — Γ_{97}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<1.4 × 10^{-4}	90	[149] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$

[149] BORTOLETTO 89 reports $< 1.2 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+ f_2(1270))/\Gamma_{total}$ — Γ_{98}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<2.4 × 10^{-4}	90	[150] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$

[150] BORTOLETTO 89 reports $< 2.1 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+\pi^-\pi^+ \text{ nonresonant})/\Gamma_{total}$ — Γ_{99}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<4.1 × 10^{-5}	90	BERGFELD	96B	CLE2	$e^+e^- \to \Upsilon(4S)$

$\Gamma(\pi^+\pi^0\pi^0)/\Gamma_{total}$ — Γ_{100}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<8.9 × 10^{-4}	90	[151] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[151] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\rho^+\pi^0)/\Gamma_{total}$ — Γ_{101}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<7.7 × 10^{-5}	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<5.5 \times 10^{-4}$	90	[152] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[152] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\pi^+\pi^-\pi^+\pi^0)/\Gamma_{total}$ — Γ_{102}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<4.0 × 10^{-3}	90	[153] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[153] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\rho^+ \rho^0)/\Gamma_{total}$ — Γ_{103}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<1.0 \times 10^{-3}$	90	[154] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[154] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(a_1(1260)^+ \pi^0)/\Gamma_{total}$ — Γ_{104}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<1.7 \times 10^{-3}$	90	[155] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[155] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(a_1(1260)^0 \pi^+)/\Gamma_{total}$ — Γ_{105}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<9.0 \times 10^{-4}$	90	[156] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[156] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\omega \pi^+)/\Gamma_{total}$ — Γ_{106}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<4.0 \times 10^{-4}$	90	[157] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[157] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\eta \pi^+)/\Gamma_{total}$ — Γ_{107}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<7.0 \times 10^{-4}$	90	[158] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[158] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\pi^+\pi^+\pi^+\pi^-\pi^-)/\Gamma_{total}$ — Γ_{108}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<8.6 \times 10^{-4}$	90	[159] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[159] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\rho^0 a_1(1260)^+)/\Gamma_{total}$ — Γ_{109}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<6.2 \times 10^{-4}$	90	[160] BORTOLETTO 89	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$<6.0 \times 10^{-4}$	90	[161] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$
$<3.2 \times 10^{-3}$	90	[160] BEBEK 87	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

[160] BORTOLETTO 89 reports $< 5.4 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

[161] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(\rho^0 a_2(1320)^+)/\Gamma_{total}$ — Γ_{110}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<7.2 \times 10^{-4}$	90	[162] BORTOLETTO 89	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$<2.6 \times 10^{-3}$	90	[163] BEBEK 87	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

[162] BORTOLETTO 89 reports $< 6.3 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

[163] BEBEK 87reports $< 2.3 \times 10^{-3}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+\pi^+\pi^+\pi^-\pi^-\pi^0)/\Gamma_{total}$ — Γ_{111}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<6.3 × 10⁻³	90	[164] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[164] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(a_1(1260)^+ a_1(1260)^0)/\Gamma_{total}$ — Γ_{112}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<1.3 \times 10^{-2}$	90	[165] ALBRECHT 90B	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[165] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.

$\Gamma(p\overline{p}\pi^+)/\Gamma_{total}$ — Γ_{113}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$< 1.6 \times 10^{-4}$	90	[166] BEBEK 89	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$< 5.0 \times 10^{-4}$	90	[167] ABREU 95N	DLPH	$e^+e^- \rightarrow Z$
$(5.7\pm1.5\pm2.1) \times 10^{-4}$		[168] ALBRECHT 88F	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[166] BEBEK 89 reports $< 1.4 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[167] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[168] ALBRECHT 88F reports $(5.2 \pm 1.4 \pm 1.9) \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(p\overline{p}\pi^+ \text{nonresonant})/\Gamma_{total}$ — Γ_{114}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<5.3 \times 10^{-5}$	90	BERGFELD 96B	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$

$\Gamma(p\overline{p}\pi^+\pi^+\pi^-)/\Gamma_{total}$ — Γ_{115}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<5.2 \times 10^{-4}$	90	[169] ALBRECHT 88F	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[169] ALBRECHT 88F reports $< 4.7 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(p\overline{p}K^+ \text{nonresonant})/\Gamma_{total}$ — Γ_{116}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<8.9 \times 10^{-5}$	90	BERGFELD 96B	CLE2	$e^+e^- \rightarrow \Upsilon(4S)$

$\Gamma(p\overline{\Lambda})/\Gamma_{total}$ — Γ_{117}/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$<6 \times 10^{-5}$	90	[170] AVERY 89B	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$<9.3 \times 10^{-5}$	90	[171] ALBRECHT 88F	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

[170] AVERY 89B reports $< 5 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[171] ALBRECHT 88F reports $< 8.5 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(p\overline{\Lambda}\pi^+\pi^-)/\Gamma_{total}$ — Γ_{118}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.0\times10^{-4}$	90	[172] ALBRECHT	88F	ARG	$e^+e^-\rightarrow\Upsilon(4S)$

[172] ALBRECHT 88F reports $<1.8\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\overline{\Delta}^0 p)/\Gamma_{total}$ — Γ_{119}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.8\times10^{-4}$	90	[173] BORTOLETTO	89	CLEO	$e^+e^-\rightarrow\Upsilon(4S)$

[173] BORTOLETTO 89 reports $<3.3\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\Delta^{++}\overline{p})/\Gamma_{total}$ — Γ_{120}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.5\times10^{-4}$	90	[174] BORTOLETTO	89	CLEO	$e^+e^-\rightarrow\Upsilon(4S)$

[174] BORTOLETTO 89 reports $<1.3\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+e^+e^-)/\Gamma_{total}$ — Γ_{121}/Γ

Test for $\Delta B=1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[175] WEIR	90B	MRK2	e^+e^- 29 GeV

[175] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(\pi^+\mu^+\mu^-)/\Gamma_{total}$ — Γ_{122}/Γ

Test for $\Delta B=1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	90	[176] WEIR	90B	MRK2	e^+e^- 29 GeV

[176] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^+e^+e^-)/\Gamma_{total}$ — Γ_{123}/Γ

Test for $\Delta B=1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6\times10^{-5}$	90	[177] AVERY	89B	CLEO	$e^+e^-\rightarrow\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<9.9\times10^{-5}$	90	[178] ALBRECHT	91E	ARG	$e^+e^-\rightarrow\Upsilon(4S)$
$<6.8\times10^{-3}$	90	[179] WEIR	90B	MRK2	e^+e^- 29 GeV
$<2.5\times10^{-4}$	90	[180] AVERY	87	CLEO	$e^+e^-\rightarrow\Upsilon(4S)$

[177] AVERY 89B reports $<5\times10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[178] ALBRECHT 91E reports $<9.0\times10^{-5}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.
[179] WEIR 90B assumes B^+ production cross section from LUND.
[180] AVERY 87 reports $<2.1\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 40% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^+ \mu^+ \mu^-)/\Gamma_{total}$ — Γ_{124}/Γ

Test for $\Delta B = 1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.0 \times 10^{-5}$	90	[181] ABE	96L	CDF	$p\overline{p}$ at 1.8 TeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.4 \times 10^{-4}$	90	[182] ALBRECHT	91E	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$
$<6.4 \times 10^{-3}$	90	[183] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV
$<1.7 \times 10^{-4}$	90	[184] AVERY	89B	CLEO	$e^+ e^- \rightarrow \Upsilon(4S)$
$<3.8 \times 10^{-4}$	90	[185] AVERY	87	CLEO	$e^+ e^- \rightarrow \Upsilon(4S)$

[181] ABE 96L measured relative to $B^0 \rightarrow J/\psi(1S) K^+$ using PDG 94 branching ratios.

[182] ALBRECHT 91E reports $< 2.2 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$. We rescale to 50%.

[183] WEIR 90B assumes B^+ production cross section from LUND.

[184] AVERY 89B reports $< 1.5 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0 \overline{B}^0$. We rescale to 50%.

[185] AVERY 87 reports $< 3.2 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 40% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(892)^+ e^+ e^-)/\Gamma_{total}$ — Γ_{125}/Γ

Test for $\Delta B = 1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6.9 \times 10^{-4}$	90	[186] ALBRECHT	91E	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

[186] ALBRECHT 91E reports $< 6.3 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(892)^+ \mu^+ \mu^-)/\Gamma_{total}$ — Γ_{126}/Γ

Test for $\Delta B = 1$ weak neutral current. Allowed by higher-order electroweak interactions.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.2 \times 10^{-3}$	90	[187] ALBRECHT	91E	ARG	$e^+ e^- \rightarrow \Upsilon(4S)$

[187] ALBRECHT 91E reports $< 1.1 \times 10^{-3}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0 \overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+ e^+ \mu^-)/\Gamma_{total}$ — Γ_{127}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[188] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[188] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(\pi^+ e^- \mu^+)/\Gamma_{total}$ — Γ_{128}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[189] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[189] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^+ e^+ \mu^-)/\Gamma_{total}$ — Γ_{129}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[190] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[190] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^+ e^- \mu^+)/\Gamma_{\text{total}}$ — Γ_{130}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[191] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[191] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(\pi^- e^+ e^+)/\Gamma_{\text{total}}$ — Γ_{131}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[192] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[192] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(\pi^- \mu^+ \mu^+)/\Gamma_{\text{total}}$ — Γ_{132}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	90	[193] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[193] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(\pi^- e^+ \mu^+)/\Gamma_{\text{total}}$ — Γ_{133}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[194] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[194] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^- e^+ e^+)/\Gamma_{\text{total}}$ — Γ_{134}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[195] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[195] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^- \mu^+ \mu^+)/\Gamma_{\text{total}}$ — Γ_{135}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	90	[196] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[196] WEIR 90B assumes B^+ production cross section from LUND.

$\Gamma(K^- e^+ \mu^+)/\Gamma_{\text{total}}$ — Γ_{136}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[197] WEIR	90B	MRK2	$e^+ e^-$ 29 GeV

[197] WEIR 90B assumes B^+ production cross section from LUND.

$B^{\pm}$ REFERENCES

ABE	97J	PRL 79 590	+Akagi, Allen+	(SLD Collab.)
ABE	96B	PR D53 3496	+Albrow, Amendolia, Amidei+	(CDF Collab.)
ABE	96C	PRL 76 4462	+Akimoto, Akopian, Albrow+	(CDF Collab.)
ABE	96H	PRL 76 2015	+Albrow, Amendolia, Amidei+	(CDF Collab.)
ABE	96L	PRL 76 4675	+Akimoto, Akopian, Albrow+	(CDF Collab.)
ABE	96Q	PR D54 6596	+Akimoto, Akopian, Albrow+	(CDF Collab.)
ABE	96R	PRL 77 5176	+Akimoto, Akopian, Albrow+	(CDF Collab.)
ASNER	96	PR D53 1039	+Athanas, Bliss, Brower+	(CLEO Collab.)
BERGFELD	96B	PRL 77 4503	+Eisenstein, Ernst, Gladding+	(CLEO Collab.)
BISHAI	96	PL B369 186	+Fast, Gerndt, Hinson+	(CLEO Collab.)
BUSKULIC	96G	ZPHY C (submitted)	+De Bonis, Decamp, Ghez+	(ALEPH Collab.)
CERN-PPE/96-14				
BUSKULIC	96J	ZPHY C71 31	+De Bonis, Decamp, Ghez+	(ALEPH Collab.)
GIBAUT	96	PR D53 4734	+Kinoshita, Pomianowski, Barish+	(CLEO Collab.)
ABREU	95N	PL B357 255	+Adam, Adye, Agasi+	(DELPHI Collab.)
ABREU	95Q	ZPHY C68 13	+Adam, Adye, Agasi+	(DELPHI Collab.)
ADAM	95	ZPHY C68 363	+Adye, Agasi, Ajinenko+	(DELPHI Collab.)
AKERS	95T	ZPHY C67 379	+Alexander, Allison, Ametewee+	(OPAL Collab.)
ALBRECHT	95D	PL B353 554	+Hamacher, Hofmann, Kirchoff+	(ARGUS Collab.)
ALEXANDER	95	PL B341 435	+Bebek, Berkelman, Bloom+	(CLEO Collab.)
Also	95C	PL B347 469 (erratum)	Alexander, Bebek, Berkelman, Bloom+	(CLEO Collab.)
ARTUSO	95	PRL 75 785	+Gao, Goldberg, He+	(CLEO Collab.)
BARISH	95	PR D51 1014	+Chadha, Chan, Cowen+	(CLEO Collab.)
BUSKULIC	95	PL B343 444	+Casper, De Bonis, Decamp, Ghez, Goy+	(ALEPH Collab.)
ABE	94D	PRL 72 3456	+Albrow, Amidei, Anway-Wiese, Apollinari	(CDF Collab.)
ALAM	94	PR D50 43	+Kim, Nemati, O'Neill, Severini+	(CLEO Collab.)
ALBRECHT	94D	PL B335 526	+Hamacher, Hofmann, Kirchhoff, Mankel+	(ARGUS Collab.)
ATHANAS	94	PRL 73 3503	+Brower, Masek, Paar, Gronberg+	(CLEO Collab.)
Also	95	PRL 74 3090 (erratum)	Athanas, Brower, Masek, Paar+	(CLEO Collab.)
PDG	94	PR D50 1173	Montanet+	(CERN, LBL, BOST, IFIC+)
STONE	94	HEPSY 93-11		
ABREU	93D	ZPHY C57 181	+Adam, Adye, Agasi, Alekseev+	(DELPHI Collab.)
ABREU	93G	PL B312 253	+Adam, Adye, Agasi, Ajinenko+	(DELPHI Collab.)
ACTON	93C	PL B307 247	+Alexander, Allison, Allport, Anderson+	(OPAL Collab.)
ALBRECHT	93E	ZPHY C60 11	+Ehrlichmann, Hamacher, Hofmann+	(ARGUS Collab.)
ALEXANDER	93B	PL B319 365	+Bebek, Berkelman, Bloom, Browder+	(CLEO Collab.)
AMMAR	93	PRL 71 674	+Ball, Baringer, Coppage, Copty+	(CLEO Collab.)
BEAN	93B	PRL 70 2681	+Gronberg, Kutschke, Menary, Morrison+	(CLEO Collab.)
BUSKULIC	93D	PL B307 194	+Decamp, Goy, Lees, Minard+	(ALEPH Collab.)
Also	94H	PL B325 537 (errata)		
SANGHERA	93	PR D47 791	+Skwarnicki, Stroynowski, Artuso, Goldberg+	(CLEO Collab.)
ALBRECHT	92C	PL B275 195	+Ehrlichmann, Hamacher, Krueger, Nau+	(ARGUS Collab.)
ALBRECHT	92E	PL B277 209	+Ehrlichmann, Hamacher, Krueger, Nau+	(ARGUS Collab.)
ALBRECHT	92G	ZPHY C54 1	+Ehrlichmann, Hamacher, Krueger, Nau+	(ARGUS Collab.)
BORTOLETTO	92	PR D45 21	+Brown, Dominick, McIlwain+	(CLEO Collab.)
BUSKULIC	92G	PL B295 396	+Decamp, Goy, Lees, Minard+	(ALEPH Collab.)
ALBRECHT	91B	PL B254 288	+Glaeser, Harder, Krueger, Nippe+	(ARGUS Collab.)
ALBRECHT	91C	PL B255 297	+Ehrlichmann, Glaeser, Harder, Krueger+	(ARGUS Collab.)
ALBRECHT	91E	PL B262 148	+Glaeser, Harder, Krueger, Nippe+	(ARGUS Collab.)
BERKELMAN	91	ARNPS 41 1	+Stone	(CORN, SYRA)
"Decays of *B* Mesons"				
FULTON	91	PR D43 651	+Jensen, Johnson, Kagan, Kass+	(CLEO Collab.)
ALBRECHT	90B	PL B241 278	+Glaeser, Harder, Krueger, Nilsson+	(ARGUS Collab.)
ALBRECHT	90J	ZPHY C48 543	+Ehrlichmann, Harder, Krueger+	(ARGUS Collab.)
ANTREASYAN	90B	ZPHY C48 553	+Bartels, Bieler, Bienlein, Bizzeti+	(Crystal Ball Collab.)
BORTOLETTO	90	PRL 64 2117	+Goldberg, Horwitz, Jain, Mestayer+	(CLEO Collab.)
Also	92	PR D45 21	Bortoletto, Brown, Dominick, McIlwain+	(CLEO Collab.)
WEIR	90B	PR D41 1384	+Klein, Abrams, Adolphsen, Akerlof+	(Mark II Collab.)
ALBRECHT	89G	PL B229 304	+Glaeser, Harder, Krueger+	(ARGUS Collab.)
AVERY	89B	PL B223 470	+Besson, Garren, Yelton+	(CLEO Collab.)
BEBEK	89	PRL 62 8	+Berkelman, Blucher+	(CLEO Collab.)
BORTOLETTO	89	PRL 62 2436	+Goldberg, Horwitz, Mestayer+	(CLEO Collab.)
ALBRECHT	88F	PL B209 119	+Boeckmann, Glaeser+	(ARGUS Collab.)
ALBRECHT	88K	PL B215 424	+Boeckmann, Glaeser+	(ARGUS Collab.)

ALBRECHT	87C	PL B185 218	+Binder, Boeckmann, Glaser+	(ARGUS Collab.)
ALBRECHT	87D	PL B199 451	+Andam, Binder, Boeckmann+	(ARGUS Collab.)
AVERY	87	PL B183 429	+Besson, Bowcock, Giles+	(CLEO Collab.)
BEBEK	87	PR D36 1289	+Berkelman, Blucher, Cassel+	(CLEO Collab.)
ALAM	86	PR D34 3279	+Katayama, Kim, Sun+	(CLEO Collab.)
PDG	86	PL 170B	Aguilar-Benitez, Porter+	(CERN, CIT+)
GILES	84	PR D30 2279	+Hassard, Hempstead, Kinoshita+	(CLEO Collab.)

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