$B^{\pm}$ – 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:

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PART 2

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$\Gamma(J/\psi(1S)K^+)/\Gamma_{total}$ 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	[95] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
9.16± 3.01±0.30		[96] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
8.0 ± 3.5 ±0.3	6	[97] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
22 ±10 ±2		BUSKULIC	92G	ALEP	$e^+e^- \to Z$
7 ± 4	3	[98] ALBRECHT	87D	ARG	$e^+e^- \to \Upsilon(4S)$
10 ± 7 ±2	3	[99] BEBEK	87	CLEO	$e^+e^- \to \Upsilon(4S)$
9 ± 5	3	[100] ALAM	86	CLEO	$e^+e^- \to \Upsilon(4S)$

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

[96] BORTOLETTO 92 reports $8 \pm 2 \pm 2$ 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 $\Upsilon(4S)$.

[97] ALBRECHT 90J reports $7 \pm 3 \pm 1$ 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 $\Upsilon(4S)$.

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 Superseded by ALBRECHT 90J.

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

[100] 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			[101] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
0.00137±0.00090±0.00004		6	[102] ALBRECHT	87D	ARG	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<0.0018	90		[103] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

[101] BORTOLETTO 92 reports $0.0012 \pm 0.0006 \pm 0.0004$ 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 $\Upsilon(4S)$.

[102] ALBRECHT 87D reports 0.0012 ± 0.0008 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. 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 $B^+ \to \psi(2S)K^+$.

[103] ALBRECHT 90J reports < 0.0016 for $B(J/\psi(1S) \to e^+e^-) = 0.069$. We rescale to our best value $B(J/\psi(1S) \to e^+e^-) = 0.0602$. 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
0.0017 ±0.0005 OUR AVERAGE					
0.00178±0.00051±0.00023	13	[104] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
0.00149±0.00107±0.00005		[105] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
0.0018 ±0.0013 ±0.0001	2	[106] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

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

[105] 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 $\Upsilon(4S)$.

[106] 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 $\Upsilon(4S)$.

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

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.043±0.023	5	[107] ALEXANDER	95	CLE2	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\psi(2S)K^+)/\Gamma_{\text{total}}$ Γ_{57}/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	[108] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
18 ± 8 ±4		5	[108] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
< 5	90		[108] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
22 ±17		3	[109] ALBRECHT	87D	ARG	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\psi(2S)K^*(892)^+)/\Gamma_{\text{total}}$ Γ_{58}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0030	90	[110] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.0035	90	[110] BORTOLETTO	92	CLEO	$e^+e^- \to \Upsilon(4S)$
<0.0049	90	[110] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\psi(2S)K^*(892)^+\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{59}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.0019±0.0011±0.0004	3	[111] ALBRECHT	90J	ARG	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\chi_{c1}(1P)K^+)/\Gamma_{\text{total}}$ Γ_{60}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.0010 ±0.0004 OUR AVERAGE					
0.00097±0.00040±0.00009	6	[112] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$
0.0019 ±0.0013 ±0.0006		[113] ALBRECHT	92E	ARG	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\chi_{c1}(1P)K^*(892)^+)/\Gamma_{\text{total}}$ Γ_{61}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0021	90	[114] ALAM	94	CLE2	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(K^0\pi^+)/\Gamma_{\text{total}}$ Γ_{62}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.8\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<1.9\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^- \to \Upsilon(4S)$
$<1.0\times10^{-4}$	90	[115] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$
$<6.8\times10^{-4}$	90	AVERY	87	CLEO	$e^+e^- \to \Upsilon(4S)$

[115] AVERY 89B reports $< 9\times10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^+\pi^0)/\Gamma_{\text{total}}$ Γ_{63}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.4\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$

$\Gamma(K^*(892)^0\pi^+)/\Gamma_{total}$ Γ_{64}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.1\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<4.8\times10^{-4}$	90	[116] ABREU	95N	DLPH	$e^+e^-\to Z$
$<1.7\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$
$<1.5\times10^{-4}$	90	[117] AVERY	89B	CLEO	$e^+e^-\to\Upsilon(4S)$
$<2.6\times10^{-4}$	90	AVERY	87	CLEO	$e^+e^-\to\Upsilon(4S)$

[116] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[117] AVERY 89B reports $< 1.3\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^*(892)^+\pi^0)/\Gamma_{total}$ Γ_{65}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.9\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K^+\pi^-\pi^+(\text{no charm}))/\Gamma_{total}$ Γ_{66}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.9\times10^{-4}$	90	[118] AVERY	89B	CLEO	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<4.0\times10^{-4}$	90	[119] ABREU	95N	DLPH	$e^+e^-\to Z$
$<3.3\times10^{-4}$	90	ALBRECHT	91E	ARG	$e^+e^-\to\Upsilon(4S)$

[118] AVERY 89B reports $< 1.7\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[119] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.

$\Gamma(K_1(1400)^0\pi^+)/\Gamma_{total}$ Γ_{67}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.6\times10^{-3}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K_2^*(1430)^0\pi^+)/\Gamma_{total}$ Γ_{68}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6.8\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K^+\rho^0)/\Gamma_{total}$ Γ_{69}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.9\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<1.9\times10^{-4}$	90	[120] ABREU	95N	DLPH	$e^+e^-\to Z$
$<1.8\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$
$<8\times10^{-5}$	90	[121] AVERY	89B	CLEO	$e^+e^-\to\Upsilon(4S)$
$<2.6\times10^{-4}$	90	AVERY	87	CLEO	$e^+e^-\to\Upsilon(4S)$

[120] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[121] AVERY 89B reports $< 7\times10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^0\rho^+)/\Gamma_{total}$ Γ_{70}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.8\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K^*(892)^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{71}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.1\times10^{-3}$	90	ALBRECHT	91E	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K^*(892)^+\rho^0)/\Gamma_{total}$ Γ_{72}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.0\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K_1(1400)^+\rho^0)/\Gamma_{total}$ Γ_{73}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.8\times10^{-4}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K_2^*(1430)^+\rho^0)/\Gamma_{total}$ Γ_{74}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.5\times10^{-3}$	90	ALBRECHT	91B	ARG	$e^+e^-\to\Upsilon(4S)$

$\Gamma(K^+ K^- K^+)/\Gamma_{total}$ Γ_{75}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.1 \times 10^{-4}$	90	[122] 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	$e^+e^- \to \Upsilon(4S)$

[122] 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_{76}/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	[123] 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	[124] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$
$<2.1 \times 10^{-4}$	90	AVERY	87	CLEO	$e^+e^- \to \Upsilon(4S)$

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

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

$\Gamma(K^*(892)^+ K^+ K^-)/\Gamma_{total}$ Γ_{77}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.6 \times 10^{-3}$	90	ALBRECHT	91E	ARG	$e^+e^- \to \Upsilon(4S)$

$\Gamma(K^*(892)^+ \phi)/\Gamma_{total}$ Γ_{78}/Γ

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

$\Gamma(K_1(1400)^+ \phi)/\Gamma_{total}$ Γ_{79}/Γ

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

$\Gamma(K_2^*(1430)^+ \phi)/\Gamma_{total}$ Γ_{80}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.4 \times 10^{-3}$	90	ALBRECHT	91B	ARG	$e^+e^- \to \Upsilon(4S)$

$\Gamma(K^+ f_0(980))/\Gamma_{total}$ Γ_{81}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<8 \times 10^{-5}$	90	[125] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$

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

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

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
$(5.7 \pm 3.1 \pm 1.1) \times 10^{-5}$		5	[126] AMMAR	93	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$< 5.5 \times 10^{-4}$	90		[127] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$
$< 5.5 \times 10^{-4}$	90		[128] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$
$< 1.8 \times 10^{-3}$	90		AVERY	87	CLEO	$e^+e^- \to \Upsilon(4S)$

[126] AMMAR 93 observed 4.1 ± 2.3 events above background.

[127] Assumes the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$.

[128] Assumes the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$.

$\Gamma(K_1(1270)^+ \gamma)/\Gamma_{total}$ Γ_{83}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0073	90	[129] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

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

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0022	90	[130] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[130] 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_{85}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0014	90	[131] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[131] 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_{86}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0019	90	[132] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[132] 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_{87}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0055	90	[133] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[133] 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_{88}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0099	90	[134] ALBRECHT	89G	ARG	$e^+e^- \to \Upsilon(4S)$

[134] 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_{89}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.7\times10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.4\times10^{-4}$	90	[135] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$
$<2.3\times10^{-3}$	90	[136] BEBEK	87	CLEO	$e^+e^- \to \Upsilon(4S)$

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

$\Gamma(\pi^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{90}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.9\times10^{-4}$	90	[137] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.2\times10^{-4}$	90	[138] ABREU	95N	DLPH	$e^+e^- \to Z$
$<4.5\times10^{-4}$	90	[139] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[137] BORTOLETTO 89 reports $< 1.7\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[138] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[139] 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_{91}/Γ

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
$<4.3\times10^{-5}$	90		ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$<2.6\times10^{-4}$	90		[140] ABREU	95N	DLPH	$e^+e^- \to Z$
$<1.5\times10^{-4}$	90		[141] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$
$<1.7\times10^{-4}$	90		[142] BORTOLETTO	89	CLEO	$e^+e^- \to \Upsilon(4S)$
$<2.3\times10^{-4}$	90		[142] BEBEK	87	CLEO	$e^+e^- \to \Upsilon(4S)$
$<6\times10^{-4}$	90	0	GILES	84	CLEO	Repl. by BEBEK 87

[140] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[141] ALBRECHT 90B limit assumes equal production of $B^0\overline{B}^0$ and B^+B^- at $\Upsilon(4S)$.
[142] 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_{92}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.4 \times 10^{-4}$	90	[143] BORTOLETTO89		CLEO	$e^+e^- \to \Upsilon(4S)$

[143] 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_{93}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.4 \times 10^{-4}$	90	[144] BORTOLETTO89		CLEO	$e^+e^- \to \Upsilon(4S)$

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

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<8.9 \times 10^{-4}$	90	[145] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[145] 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_{95}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.7 \times 10^{-5}$	90	ASNER	96	CLE2	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<5.5 \times 10^{-4}$	90	[146] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[146] 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_{96}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.0 \times 10^{-3}$	90	[147] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[147] 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_{97}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.0 \times 10^{-3}$	90	[148] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[148] 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_{98}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.7 \times 10^{-3}$	90	[149] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

[149] 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_{99}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<9.0 \times 10^{-4}$	90	[150] ALBRECHT	90B	ARG	$e^+e^- \to \Upsilon(4S)$

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

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<4.0 \times 10^{-4}$	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 $\Upsilon(4S)$.

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.0 \times 10^{-4}$	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 $\Upsilon(4S)$.

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<8.6 \times 10^{-4}$	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 $\Upsilon(4S)$.

$\Gamma(\rho^0 a_1(1260)^+)/\Gamma_{total}$ Γ_{103}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6.2\times10^{-4}$	90	[154] BORTOLETTO	89	CLEO	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<6.0\times10^{-4}$	90	[155] ALBRECHT	90B	ARG	$e^+e^-\to\Upsilon(4S)$
$<3.2\times10^{-3}$	90	[154] BEBEK	87	CLEO	$e^+e^-\to\Upsilon(4S)$

[154] BORTOLETTO 89 reports $<5.4\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[155] 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_{104}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<7.2\times10^{-4}$	90	[156] BORTOLETTO	89	CLEO	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.6\times10^{-3}$	90	[157] BEBEK	87	CLEO	$e^+e^-\to\Upsilon(4S)$

[156] BORTOLETTO 89 reports $<6.3\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[157] BEBEK 87reports $<2.3\times10^{-3}$ 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_{105}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6.3\times10^{-3}$	90	[158] ALBRECHT	90B	ARG	$e^+e^-\to\Upsilon(4S)$

[158] 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_{106}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.3\times10^{-2}$	90	[159] ALBRECHT	90B	ARG	$e^+e^-\to\Upsilon(4S)$

[159] 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_{107}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.6\times10^{-4}$	90	[160] BEBEK	89	CLEO	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<5.0\times10^{-4}$	90	[161] ABREU	95N	DLPH	$e^+e^-\to Z$
$(5.7\pm1.5\pm2.1)\times10^{-4}$		[162] ALBRECHT	88F	ARG	$e^+e^-\to\Upsilon(4S)$

[160] BEBEK 89 reports $<1.4\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[161] Assumes a B^0, B^- production fraction of 0.39 and a B_s production fraction of 0.12.
[162] ALBRECHT 88F reports $(5.2\pm1.4\pm1.9)\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<5.2\times10^{-4}$	90	[163] ALBRECHT	88F	ARG	$e^+e^-\to\Upsilon(4S)$

[163] ALBRECHT 88F reports $<4.7\times10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(p\overline{\Lambda})/\Gamma_{total}$ Γ_{109}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6\times10^{-5}$	90	[164] AVERY	89B	CLEO	$e^+e^-\to\Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<9.3\times10^{-5}$	90	[165] ALBRECHT	88F	ARG	$e^+e^-\to\Upsilon(4S)$

[164] AVERY 89B reports $<5\times10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[165] ALBRECHT 88F reports $<8.5\times10^{-5}$ 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_{110}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<2.0\times10^{-4}$	90	[166] ALBRECHT	88F	ARG	$e^+e^-\to\Upsilon(4S)$

[166] 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_{111}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<3.8 \times 10^{-4}$	90	[167] BORTOLETTO89		CLEO	$e^+e^- \to \Upsilon(4S)$

[167] BORTOLETTO 89 reports $< 3.3 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\Delta^{++}\overline{p})/\Gamma_{total}$ Γ_{112}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.5 \times 10^{-4}$	90	[168] BORTOLETTO89		CLEO	$e^+e^- \to \Upsilon(4S)$

[168] BORTOLETTO 89 reports $< 1.3 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(\pi^+ e^+ e^-)/\Gamma_{total}$ Γ_{113}/Γ

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[169] WEIR	90B	MRK2	e^+e^- 29 GeV

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

$\Gamma(\pi^+ \mu^+ \mu^-)/\Gamma_{total}$ Γ_{114}/Γ

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	90	[170] WEIR	90B	MRK2	e^+e^- 29 GeV

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

$\Gamma(K^+ e^+ e^-)/\Gamma_{total}$ Γ_{115}/Γ

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<6 \times 10^{-5}$	90	[171] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<9.9 \times 10^{-5}$	90	[172] ALBRECHT	91E	ARG	$e^+e^- \to \Upsilon(4S)$
$<6.8 \times 10^{-3}$	90	[173] WEIR	90B	MRK2	e^+e^- 29 GeV
$<2.5 \times 10^{-4}$	90	[174] AVERY	87	CLEO	$e^+e^- \to \Upsilon(4S)$

[171] AVERY 89B reports $< 5 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[172] ALBRECHT 91E reports $< 9.0 \times 10^{-5}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.
[173] WEIR 90B assumes B^+ production cross section from LUND.
[174] AVERY 87 reports $< 2.1 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 40% to $B^0\overline{B}^0$. We rescale to 50%.

$\Gamma(K^+ \mu^+ \mu^-)/\Gamma_{total}$ Γ_{116}/Γ

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1.7 \times 10^{-4}$	90	[175] AVERY	89B	CLEO	$e^+e^- \to \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$<2.4 \times 10^{-4}$	90	[176] ALBRECHT	91E	ARG	$e^+e^- \to \Upsilon(4S)$
$<6.4 \times 10^{-3}$	90	[177] WEIR	90B	MRK2	e^+e^- 29 GeV
$<3.8 \times 10^{-4}$	90	[178] AVERY	87	CLEO	$e^+e^- \to \Upsilon(4S)$

[175] AVERY 89B reports $< 1.5 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 43% to $B^0\overline{B}^0$. We rescale to 50%.
[176] ALBRECHT 91E reports $< 2.2 \times 10^{-4}$ assuming the $\Upsilon(4S)$ decays 45% to $B^0\overline{B}^0$. We rescale to 50%.
[177] WEIR 90B assumes B^+ production cross section from LUND.
[178] 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_{117}/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	[179] ALBRECHT	91E	ARG	$e^+e^- \to \Upsilon(4S)$

[179] 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_{118}/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	[180] ALBRECHT	91E	ARG	$e^+e^- \to \Upsilon(4S)$

[180] 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_{119}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[181] WEIR	90B	MRK2	e^+e^- 29 GeV

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

$\Gamma(\pi^+ e^- \mu^+)/\Gamma_{total}$ Γ_{120}/Γ

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[182] WEIR	90B	MRK2	e^+e^- 29 GeV

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

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

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[183] WEIR	90B	MRK2	e^+e^- 29 GeV

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

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

Test of lepton family number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[184] WEIR	90B	MRK2	e^+e^- 29 GeV

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

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

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[185] WEIR	90B	MRK2	e^+e^- 29 GeV

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

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

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	90	[186] WEIR	90B	MRK2	e^+e^- 29 GeV

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

$\Gamma(\pi^- e^+ \mu^+)/\Gamma_{total}$ Γ_{125}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0064	90	[187] WEIR	90B	MRK2	e^+e^- 29 GeV

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

$\Gamma(K^- e^+ e^+)/\Gamma_{total}$ Γ_{126}/Γ

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0039	90	[188] WEIR	90B	MRK2	e^+e^- 29 GeV

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

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

Test of total lepton number conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0091	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_{128}/Γ

Test of total lepton 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.

$B^{\pm}$ REFERENCES

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