$\Gamma(\Lambda\overline{\Lambda}\text{anything})/\Gamma_{\text{total}}$ Γ_{170}/Γ

VALUE	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<0.005	90		CRAWFORD 92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.0088	90	12	ALBRECHT 89K	ARG	$e^+e^- \rightarrow \Upsilon(4S)$

$\Gamma(\Lambda\overline{\Lambda}\text{anything})/[\Gamma(\Lambda\text{anything}) + \Gamma(\overline{\Lambda}\text{anything})]$ $\Gamma_{170}/\Gamma_{165}$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<0.13	90	CRAWFORD 92	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

$\Gamma(e^+e^-\text{ anything})/\Gamma_{\text{total}}$ Γ_{171}/Γ

Test for $\Delta B = 1$ weak neutral current.

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<0.0024 OUR LIMIT	Our 90% CL limit, using $[\Gamma(e^+e^-\text{ anything}) + \Gamma(\mu^+\mu^-\text{ anything})]/\Gamma_{\text{total}}$ below.			
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.05	90	BEBEK 81	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

$[\Gamma(e^+e^-\text{ anything}) + \Gamma(\mu^+\mu^-\text{ anything})]/\Gamma_{\text{total}}$ $(\Gamma_{171}+\Gamma_{172})/\Gamma$

Test for $\Delta B = 1$ weak neutral current.

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<0.0024	90	[266] BEAN 87	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.0062	90	[267] AVERY 84	CLEO	Repl. by BEAN 87
<0.008	90	MATTEUZZI 83	MRK2	E^{ee}_{cm}= 29 GeV

[266] BEAN 87 reports $[(\mu^+\mu^-)+(e^+e^-)]/2$ and we converted it.
[267] Determine ratio of B^+ to B^0 semileptonic decays to be in the range 0.25–2.9.

$\Gamma(\mu^+\mu^-\text{ anything})/\Gamma_{\text{total}}$ Γ_{172}/Γ

Test for $\Delta B = 1$ weak neutral current.

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$\mathbf{<5.0 \times 10^{-5}}$	90	[268] ALBAJAR 91C	UA1	$E^{p\overline{p}}_{\text{cm}}$= 630 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.02	95	ALTHOFF 84G	TASS	E^{ee}_{cm}= 34.5 GeV
<0.007	95	ADEVA 83	MRKJ	E^{ee}_{cm}= 30–38 GeV
<0.007	95	BARTEL 83B	JADE	E^{ee}_{cm}= 33–37 GeV
<0.017	90	CHADWICK 81	CLEO	$e^+e^- \rightarrow \Upsilon(4S)$

[268] B^0, $B^{\pm}$, and B^0_s not separated.

$B^{\pm}$ REFERENCES

ABE 94D PRL 72 3456 +Albrow, Amidei, Anway-Wiese, Apollinari (CDF Collab.)
ABREU 94C ZPHY C63 (to be pub.)+Adam, Adye, Agasi, Aleksan+ (DELPHI Collab.)
CERN-PPE/94-04
ALAM 94 PR D (to be pub.) +Kim, Nemati, O'Neill, Severini+ (CLEO Collab.)
CLNS 94-1270
PDG 94 PR D50 1173 Montanet+ (CERN, LBL, BOST, IFIC+)
PROCARIO 94 PRL (to be pub.) +Balest, Cho, Daoudi, Ford+ (CLEO Collab.)
CLNS 93/1264, CLEO 93-24
STONE 94 HEPSY 93-11
ABE 93E PL B313 288 +Amako, Arai, Arima, Asano+ (VENUS Collab.)
ABE 93J PRL 71 3421 +Albrow, Amidei, Anway-Wiese+ (CDF Collab.)
ABREU 93C PL B301 145 +Adam, Adye, Agasi, Aleksan+ (DELPHI Collab.)
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.)
ACTON 93L ZPHY C60 217 +Akers, Alexander, Allison, Anderson+ (OPAL Collab.)
ADRIANI 93J PL B317 467 +Aguilar-Benitez, Ahlen, Alcaraz+ (L3 Collab.)
ADRIANI 93K PL B317 474 +Aguilar-Benitez, Ahlen, Alcarez+ (L3 Collab.)
ADRIANI 93L PL B317 637 +Aguilar-Benitez, Ahlen, Alcaraz+ (L3 Collab.)
AKERS 93B ZPHY C60 199 +Alexander, Allison, Anderson, Arcelli+ (OPAL Collab.)
ALBRECHT 93 ZPHY C57 533 +Ehrlichmann, Hamacher, Hofmann+ (ARGUS Collab.)
ALBRECHT 93E ZPHY C60 11 +Ehrlichmann, Hamacher, Hofmann+ (ARGUS Collab.)
ALBRECHT 93H PL B318 397 +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.)
ARTUSO 93 PL B311 307 (SYRA)
BARTELT 93B PRL 71 4111 +Csorna, Egyed, Jain, Akerib+ (CLEO Collab.)
BEAN 93B PRL 70 2681 +Gronberg, Kutschke, Menary, Morrison+ (CLEO Collab.)
BUSKULIC 93B PL B298 479 +Decamp, Goy, Lees, Minard+ (ALEPH Collab.)
BUSKULIC 93D PL B307 194 +Decamp, Goy, Lees, Minard+ (ALEPH Collab.)
BUSKULIC 93O PL B314 459 +De Bonis, Decamp, Ghez, Goy+ (ALEPH Collab.)
SANGHERA 93 PR D47 791 +Skwarnicki, Stroynowski, Artuso, Goldberg+(CLEO Collab.)
ABREU 92 ZPHY C53 567 +Adam, Adami, Adye+ (DELPHI Collab.)
ACTON 92 PL B274 513 +Alexander, Allison, Allport, Anderson+ (OPAL Collab.)
ADRIANI 92 PL B288 412 +Aguilar-Benitez, Ahlen, Akbari+ (L3 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.)
ALBRECHT 92O ZPHY C56 1 +Cronstroem, Ehrlichmann+ (ARGUS Collab.)
BORTOLETTO 92 PR D45 21 +Brown, Dominick, McIlwain+ (CLEO Collab.)
BUSKULIC 92F PL B295 174 +Decamp, Goy, Lees, Minard+ (ALEPH Collab.)
BUSKULIC 92G PL B295 396 +Decamp, Goy, Lees, Minard+ (ALEPH Collab.)
CRAWFORD 92 PR D45 752 +Fulton, Jensen, Johnson+ (CLEO Collab.)
HENDERSON 92 PR D45 2212 +Kinoshita, Pipkin, Procario+ (CLEO Collab.)
KRAMER 92 PL B279 181 +Palmer (HAMB, OSU)
LESIAK 92 ZPHY C55 33 +Antreasyan, Bartels, Besset, Bieler+ (Crystal Ball Collab.)
ADEVA 91C PL B261 177 +Adriani, Aguilar-Benitez, Akbari+ (L3 Collab.)
ADEVA 91H PL B270 111 +Adrani, Aguilar-Benitez, Akbari, Alcaraz+ (L3 Collab.)
ALBAJAR 91C PL B262 163 +Albrow, Allkofer, Ankoviak, Apsimon+ (UA1 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.)
ALBRECHT 91H ZPHY C52 353 +Ehrlichmann, Hamacher, Harder+ (ARGUS Collab.)
ALEXANDER 91G PL B266 485 +Allison, Allport+ (OPAL Collab.)
BERKELMAN 91 ARNPS 41 1 +Stone (CORN, SYRA)
"Decays of B Mesons"
DECAMP 91C PL B257 492 +Deschizeaux, Goy, Lees, Minard+ (ALEPH Collab.)
FULTON 91 PR D43 651 +Jensen, Johnson, Kagan, Kass+ (CLEO Collab.)
YANAGISAWA 91 PRL 66 2436 +Heintz, Lee-Franzini, Lovelock, Narain+ (CUSB II Collab.)
ALBRECHT 90 PL B234 409 +Glaeser, Harder, Krueger+ (ARGUS Collab.)
ALBRECHT 90B PL B241 278 +Glaeser, Harder, Krueger, Nilsson+ (ARGUS Collab.)
ALBRECHT 90H PL B249 359 +Ehrlichmann, Glaeser, Harder, Krueger+ (Argus Collab.)
ALBRECHT 90J ZPHY C48 543 +Ehrlichmann, Harder, Krueger+ (ARGUS Collab.)
ANTREASYAN 90B ZPHY C48 553 +Bartels, Bieler, Bienlein, Bizzeti+ (Crystal Ball Collab.)
BEHREND 90D ZPHY C47 333 +Criegee, Field, Franke, Jung+ (CELLO Collab.)
BORTOLETTO 90 PRL 64 2117 +Goldberg, Horwitz, Jain, Mestayer+ (CLEO Collab.)
Also 92 PR D45 21 Bortoletto, Brown, Dominick, McIlwain+ (CLEO Collab.)
FULTON 90 PRL 64 16 +Hempstead, Jensen, Johnson+ (CLEO Collab.)
HAGEMANN 90 ZPHY C48 401 +Ramcke, Allison, Ambrus, Barlow+ (JADE Collab.)
LYONS 90 PR D41 982 +Martin, Saxon (OXF, BRIS, RAL)
MASCHMANN 90 ZPHY C46 555 +Antreasyan, Bartels, Besset+ (Crystal Ball Collab.)
PDG 90 PL B239 Hernandez, Stone, Porter+ (IFIC, BOST, CIT+)
WEIR 90B PR D41 1384 +Klein, Abrams, Adolphsen, Akerlof+ (Mark II Collab.)
ALBRECHT 89G PL B229 304 +Glaeser, Harder, Krueger+ (ARGUS Collab.)
ALBRECHT 89K ZPHY C42 519 +Boeckmann, Glaeser, Harder+ (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.)
BRAUNSCH... 89B ZPHY C44 1 Braunschweig, Gerhards, Kirschfink+ (TASSO Collab.)
ISGUR 89B PR D39 799 +Scora, Grinstein, Wise (TNTO, CIT)
ONG 89 PRL 62 1236 +Jaros, Abrams, Amidei, Baden+ (Mark II Collab.)
WACHS 89 ZPHY C42 33 +Antreasyan, Bartels, Bieler+ (Crystal Ball Collab.)
ALBRECHT 88E PL B210 263 +Boeckmann, Glaeser+ (ARGUS Collab.)
ALBRECHT 88F PL B209 119 +Boeckmann, Glaeser+ (ARGUS Collab.)
ALBRECHT 88H PL B210 258 +Boeckmann, Glaeser+ (ARGUS Collab.)
ALBRECHT 88K PL B215 424 +Boeckmann, Glaeser+ (ARGUS Collab.)
KLEM 88 PR D37 41 +Atwood, Barish+ (DELCO Collab.)
KOERNER 88 ZPHY C38 511 +Schuler (MANZ, DESY)
ONG 88 PRL 60 2587 +Weir, Abrams, Amidei+ (Mark II Collab.)
ALAM 87 PRL 59 22 +Kitukama, Kim, Li+ (CLEO Collab.)
ALAM 87B PRL 58 1814 +Katayama, Kim, Sun+ (CLEO Collab.)
ALBRECHT 87C PL B185 218 +Binder, Boeckmann, Glaser+ (ARGUS Collab.)
ALBRECHT 87D PL B199 451 +Andam, Binder, Boeckmann+ (ARGUS Collab.)
ALBRECHT 87H PL B187 425 +Binder, Boeckmann, Glaser+ (ARGUS Collab.)
ASH 87 PRL 58 640 +Band, Bloom, Bosman+ (MAC Collab.)
AVERY 87 PL B183 429 +Besson, Bowcock, Giles+ (CLEO Collab.)
BARTEL 87 ZPHY C33 339 +Becker, Felst, Haidt+ (JADE Collab.)
BEAN 87 PR D35 3533 +Bobbink, Brock, Engler+ (CLEO Collab.)
BEBEK 87 PR D36 1289 +Berkelman, Blucher, Cassel+ (CLEO Collab.)
BEHRENDS 87 PRL 59 407 +Morrow, Guida, Guida+ (CLEO Collab.)
BORTOLETTO 87 PR D35 19 +Chen, Garren, Goldberg+ (CLEO Collab.)
BROM 87 PL B195 301 +Abachi, Akerlof, Baringer+ (HRS Collab.)
ALAM 86 PR D34 3279 +Katayama, Kim, Sun+ (CLEO Collab.)
BALTRUSAIT... 86E PRL 56 2140 Baltrusaitis, Becker, Blaylock, Brown+ (Mark III Collab.)
BARTEL 86B ZPHY C31 349 +Becker, Cords, Felst, Haidt+ (JADE Collab.)
BORTOLETTO 86 PRL 56 800 +Chen, Garren, Goldberg+ (CLEO Collab.)
HAAS 86 PRL 56 2781 +Hempstead, Jensen, Kagan+ (CLEO Collab.)
PAL 86 PR D33 2708 +Atwood, Barish, Bonneaud+ (DELCO Collab.)
PDG 86 PL 170B Aguilar-Benitez, Porter+ (CERN, CIT+)
AIHARA 85 ZPHY C27 39 +Alston-Garnjost, Badtke, Bakken+ (TPC Collab.)
ALBRECHT 85H PL 162B 395 +Binder, Harder+ (ARGUS Collab.)
BARTEL 85J PL 163B 277 +Becker, Cords, Felst+ (JADE Collab.)
CSORNA 85 PRL 54 1894 +Garren, Mestayer, Panvini+ (CLEO Collab.)
HAAS 85 PRL 55 1248 +Hempstead, Jensen, Kagan+ (CLEO Collab.)
ALTHOFF 84G ZPHY C22 219 +Braunschweig, Kirschfink+ (TASSO Collab.)
ALTHOFF 84H PL 149B 524 +Braunschweig, Kirschfink+ (TASSO Collab.)
ALTHOFF 84J PL 146B 443 +Branschweig, Kirschfink+ (TASSO Collab.)
AVERY 84 PRL 53 1309 +Bebek, Berkelman, Cassel+ (CLEO Collab.)
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KLEM 84 PRL 53 1873 +Dubois, Young, Atwood+ (DELCO Collab.)
KOOP 84 PRL 52 970 +Sakuda, Atwood, Baillon+ (DELCO Collab.)
LEVMAN 84 PL 141B 271 +Sreedhar, Han, Imlay+ (CUSB Collab.)
ADEVA 83 PRL 50 799 +Barber, Becker, Berdugo+ (Mark-J Collab.)
ADEVA 83B PRL 51 443 +Barber, Becker, Berdugo+ (Mark-J Collab.)
ALAM 83B PRL 51 1143 +Csorna, Garren, Mestayer+ (CLEO Collab.)
BARTEL 83B PL 132B 241 +Becker, Bowdery, Cords+ (JADE Collab.)
FERNANDEZ 83B PRL 51 1022 +Ford, Read, Smith+ (MAC Collab.)
FERNANDEZ 83D PRL 50 2054 +Ford, Read, Smith+ (MAC Collab.)
GREEN 83 PRL 51 347 +Hicks, Sannes, Skubic+ (CLEO Collab.)
KLOPFEN... 83B PL 130B 444 Klopfenstein, Horstkotte+ (CUSB Collab.)
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MATTEUZZI 83 PL 129B 141 +Abrams, Amidei, Blocker+ (Mark II Collab.)
NELSON 83 PRL 50 1542 +Blondel, Trilling, Abrams+ (Mark II Collab.)
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BEBEK 81 PRL 46 84 +Haggerty, izen, Longuemare+ (CLEO Collab.)
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