



$$I(J^P) = \frac{1}{2}(\frac{1}{2}^+) \text{ Status: } ***$$

Neither of  $J$  or  $P$  has actually been measured.

## $\Xi_c^+$ MASS

The fit uses the  $\Xi_c^+$  and  $\Xi_c^0$  mass and mass-difference measurements.

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2467.71 ± 0.23 OUR FIT</b>		Error includes scale factor of 1.3.		
<b>2467.95 ± 0.19 OUR AVERAGE</b>				
2467.97 ± 0.14 ± 0.17	3.8k	<sup>1</sup> AAIJ	14Z	LHCB $pp$ at 7, 8 TeV
2468.00 ± 0.18 ± 0.51	5.1k	AALTONEN	14B	CDF $p\bar{p}$ at 1.96 TeV
2468.1 ± 0.4 <sup>+</sup> 0.2 - 1.4	4.9k	<sup>2</sup> LESIAK	05	BELL $e^+e^-$ , $\Upsilon(4S)$
2465.8 ± 1.9 ± 2.5	90	FRABETTI	98	E687 $\gamma$ Be, $\bar{E}_\gamma = 220$ GeV
2467.0 ± 1.6 ± 2.0	147	EDWARDS	96	CLE2 $e^+e^- \approx \Upsilon(4S)$
2465.1 ± 3.6 ± 1.9	30	ALBRECHT	90F	ARG $e^+e^-$ at $\Upsilon(4S)$
2467 ± 3 ± 4	23	ALAM	89	CLEO $e^+e^-$ 10.6 GeV
2466.5 ± 2.7 ± 1.2	5	BARLAG	89C	ACCM $\pi^-$ Cu 230 GeV
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
2464.4 ± 2.0 ± 1.4	30	FRABETTI	93B	E687 See FRABETTI 98
2459 ± 5 ± 30	56	<sup>3</sup> COTEUS	87	SPEC $nA \simeq 600$ GeV
2460 ± 25	82	BIAGI	83	SPEC $\Sigma^-$ Be 135 GeV

<sup>1</sup> AAIJ 14Z systematic error includes in quadrature the 0.14 MeV uncertainty from the  $m(\Lambda_c^+)$  mass value.

<sup>2</sup> The systematic error was (wrongly) given the other way round in LESIAK 05; see the erratum.

<sup>3</sup> Although COTEUS 87 claims to agree well with BIAGI 83 on the mass and width, there appears to be a discrepancy between the two experiments. BIAGI 83 sees a single peak (stated significance about 6 standard deviations) in the  $\Lambda K^- \pi^+ \pi^+$  mass spectrum. COTEUS 87 sees *two* peaks in the same spectrum, one at the  $\Xi_c^+$  mass, the other 75 MeV lower. The latter is attributed to  $\Xi_c^+ \rightarrow \Sigma^0 K^- \pi^+ \pi^+ \rightarrow (\Lambda\gamma) K^- \pi^+ \pi^+$ , with the  $\gamma$  unseen. The *combined* significance of the double peak is stated to be 5.5 standard deviations. But the absence of any trace of a lower peak in BIAGI 83 seems to us to throw into question the interpretation of the lower peak of COTEUS 87.

## $\Xi_c^+$ MEAN LIFE

VALUE ( $10^{-15}$ s)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>453 ± 5 OUR AVERAGE</b>				
454 ± 5 ± 2	56k	<sup>1</sup> AAIJ	19AG	LHCB $\Xi_c^+ \rightarrow p K^- \pi^+$
503 ± 47 ± 18	250	MAHMOOD	02	CLE2 $e^+e^- \approx \Upsilon(4S)$
439 ± 22 ± 9	532	LINK	01D	FOCS $\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV

$340_{-50}^{+70} \pm 20$	56	FRABETTI	98	E687	$\gamma$ Be, $\bar{E}_\gamma = 220$ GeV
$400_{-120}^{+180} \pm 100$	102	COTEUS	87	SPEC	$nA \simeq 600$ GeV
$480_{-150}^{+210+200} - 100$	53	BIAGI	85C	SPEC	$\Sigma^-$ Be 135 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$410_{-80}^{+110} \pm 20$	30	FRABETTI	93B	E687	See FRABETTI 98
$200_{-60}^{+110}$	6	BARLAG	89C	ACCM	$\pi^-$ ( $K^-$ ) Cu 230 GeV

<sup>1</sup> AAIJ 19AG reports  $[\Xi_C^+ \text{ MEAN LIFE}] / [D^\pm \text{ MEAN LIFE}] = 0.4392 \pm 0.0034 \pm 0.0028$  which we multiply by our best value  $D^\pm \text{ MEAN LIFE} = (1.033 \pm 0.005) \times 10^{-12}$  s. Our first error is their experiment's error and our second error is the systematic error from using our best value.

## $\Xi_C^+$ DECAY MODES

Branching fractions marked with a footnote, e.g. [a], have been corrected for decay modes not observed in the experiments. For example, the sub-mode fraction  $\Xi_C^+ \rightarrow \Sigma^+ \bar{K}^*(892)^0$  seen in  $\Xi_C^+ \rightarrow \Sigma^+ K^- \pi^+$  has been multiplied up to include  $\bar{K}^*(892)^0 \rightarrow \bar{K}^0 \pi^0$  decays.

Mode	Fraction ( $\Gamma_i/\Gamma$ )	Scale factor/ Confidence level
<b>Cabibbo-favored (<math>S = -2</math>) decays</b>		
$\Gamma_1$ $p2K_S^0$	$(2.5 \pm 1.3) \times 10^{-3}$	
$\Gamma_2$ $\Lambda \bar{K}^0 \pi^+$	—	
$\Gamma_3$ $\Sigma(1385)^+ \bar{K}^0$	[a] $(2.9 \pm 2.0) \%$	
$\Gamma_4$ $\Lambda K^- 2\pi^+$	$(9 \pm 4) \times 10^{-3}$	
$\Gamma_5$ $\Lambda \bar{K}^*(892)^0 \pi^+$	[a] $< 5 \times 10^{-3}$	CL=90%
$\Gamma_6$ $\Sigma(1385)^+ K^- \pi^+$	[a] $< 6 \times 10^{-3}$	CL=90%
$\Gamma_7$ $\Sigma^+ K^- \pi^+$	$(2.7 \pm 1.2) \%$	
$\Gamma_8$ $\Sigma^+ \bar{K}^*(892)^0$	[a] $(2.3 \pm 1.1) \%$	
$\Gamma_9$ $\Sigma^0 K^- 2\pi^+$	$(8 \pm 5) \times 10^{-3}$	
$\Gamma_{10}$ $\Xi^0 \pi^+$	$(1.6 \pm 0.8) \%$	
$\Gamma_{11}$ $\Xi^- 2\pi^+$	$(2.9 \pm 1.3) \%$	
$\Gamma_{12}$ $\Xi(1530)^0 \pi^+$	[a] $< 2.9 \times 10^{-3}$	CL=90%
$\Gamma_{13}$ $\Xi(1620)^0 \pi^+$	seen	
$\Gamma_{14}$ $\Xi(1690)^0 \pi^+$	seen	
$\Gamma_{15}$ $\Xi^0 \pi^+ \pi^0$	$(6.7 \pm 3.5) \%$	
$\Gamma_{16}$ $\Xi^0 \pi^- 2\pi^+$	$(5.0 \pm 2.6) \%$	
$\Gamma_{17}$ $\Xi^0 e^+ \nu_e$	$(7 \pm 4) \%$	
$\Gamma_{18}$ $\Omega^- K^+ \pi^+$	$(2.0 \pm 1.5) \times 10^{-3}$	

### Cabibbo-suppressed decays

$\Gamma_{19}$	$\rho K^- \pi^+$		$(6.2 \pm 3.0) \times 10^{-3}$	$S=1.5$
$\Gamma_{20}$	$\rho \bar{K}^*(892)^0$	[a]	$(3.3 \pm 1.7) \times 10^{-3}$	
$\Gamma_{21}$	$\Sigma^+ \pi^+ \pi^-$		$(1.4 \pm 0.8) \%$	
$\Gamma_{22}$	$\Sigma^- 2\pi^+$		$(5.1 \pm 3.4) \times 10^{-3}$	
$\Gamma_{23}$	$\Sigma^+ K^+ K^-$		$(4.3 \pm 2.5) \times 10^{-3}$	
$\Gamma_{24}$	$\Sigma^+ \phi$	[a]	$< 3.2 \times 10^{-3}$	CL=90%
$\Gamma_{25}$	$\Xi(1690)^0 K^+, \Xi^0 \rightarrow \Sigma^+ K^-$		$< 1.3 \times 10^{-3}$	CL=90%
$\Gamma_{26}$	$\rho \phi(1020)$		$(1.2 \pm 0.6) \times 10^{-4}$	

[a] This branching fraction includes all the decay modes of the final-state resonance.

### $\Xi_c^+$ BRANCHING RATIOS

#### ———— Cabibbo-favored ( $S = -2$ ) decays ————

$\Gamma(\rho 2K_S^0)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_1/\Gamma_{11}$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>0.087 \pm 0.016 \pm 0.014</math></b>	$168 \pm 27$	LESIAK	05 BELL	$e^+ e^-$ , $\gamma(4S)$

$\Gamma(\Sigma(1385)^+ \bar{K}^0)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_3/\Gamma_{11}$

Unseen decay modes of the  $\Sigma(1385)^+$  are included.

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>1.00 \pm 0.49 \pm 0.24</math></b>	20	LINK	03E FOCS	$< 1.72$ , 90% CL

$\Gamma(\Lambda K^- 2\pi^+)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_4/\Gamma_{11}$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>0.323 \pm 0.033</math> OUR AVERAGE</b>				
$0.32 \pm 0.03 \pm 0.02$	$1177 \pm 55$	LESIAK	05 BELL	$e^+ e^-$ , $\gamma(4S)$
$0.28 \pm 0.06 \pm 0.06$	58	LINK	03E FOCS	$\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV
$0.58 \pm 0.16 \pm 0.07$	61	BERGFELD	96 CLE2	$e^+ e^- \approx \gamma(4S)$

$\Gamma(\Lambda \bar{K}^*(892)^0 \pi^+)/\Gamma(\Lambda K^- 2\pi^+)$   $\Gamma_5/\Gamma_4$

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

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>&lt; 0.5</math></b>	90	BERGFELD	96 CLE2	$e^+ e^- \approx \gamma(4S)$

$\Gamma(\Sigma(1385)^+ K^- \pi^+)/\Gamma(\Lambda K^- 2\pi^+)$   $\Gamma_6/\Gamma_4$

Unseen decay modes of the  $\Sigma(1385)^+$  are included.

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>&lt; 0.7</math></b>	90	BERGFELD	96 CLE2	$e^+ e^- \approx \gamma(4S)$

$\Gamma(\Sigma^+ K^- \pi^+)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_7/\Gamma_{11}$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.94±0.10 OUR AVERAGE</b>				
0.91±0.11±0.04	251	LINK	03E	FOCS $\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV
0.92±0.20±0.07		<sup>1</sup> JUN	00	SELX $\Sigma^-$ nucleus, 600 GeV
1.18±0.26±0.17	119	BERGFELD	96	CLE2 $e^+e^- \approx \Upsilon(4S)$

<sup>1</sup>This JUN 00 result is redundant with other results given below.

$\Gamma(\Sigma^+ \bar{K}^*(892)^0)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_8/\Gamma_{11}$

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

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.81±0.15 OUR AVERAGE</b>				
0.78±0.16±0.06	119	LINK	03E	FOCS $\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV
0.92±0.27±0.14	61	BERGFELD	96	CLE2 $e^+e^- \approx \Upsilon(4S)$

$\Gamma(\Sigma^0 K^- 2\pi^+)/\Gamma(\Lambda K^- 2\pi^+)$   $\Gamma_9/\Gamma_4$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.84±0.36</b>	47	<sup>1</sup> COTEUS	87	SPEC $nA \simeq 600$ GeV

<sup>1</sup>See, however, the note on the COTEUS 87  $\Xi_c^+$  mass measurement.

$\Gamma(\Xi^0 \pi^+)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_{10}/\Gamma_{11}$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.55±0.13±0.09</b>	39	EDWARDS	96	CLE2 $e^+e^- \approx \Upsilon(4S)$

$\Gamma(\Xi^- 2\pi^+)/\Gamma_{\text{total}}$   $\Gamma_{11}/\Gamma$

VALUE (units $10^{-2}$ )	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2.86±1.21±0.38</b>	24	<sup>1</sup> LI	19C	BELL $e^+e^- \approx \Upsilon(4S)$

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

seen	131	BERGFELD	96	CLE2 $e^+e^- \approx \Upsilon(4S)$
seen	160	AVERY	95	CLE2 $e^+e^- \approx \Upsilon(4S)$
seen	30	FRABETTI	93B	E687 $\gamma$ Be, $\bar{E}_\gamma = 220$ GeV
seen	30	ALBRECHT	90F	ARG $e^+e^-$ at $\Upsilon(4S)$
seen	23	ALAM	89	CLEO $e^+e^- 10.6$ GeV

<sup>1</sup>LI 19C report a significance of 6.8  $\sigma$  for the observation of this decay mode, observed in  $\Xi_c^+$  from  $\bar{B}^0 \rightarrow \bar{\Lambda}_c^- \Xi_c^+$ .

$\Gamma(\Xi(1530)^0 \pi^+)/\Gamma(\Xi^- 2\pi^+)$   $\Gamma_{12}/\Gamma_{11}$

Unseen decay modes of the  $\Xi(1530)^0$  are included.

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;0.1</b>	90	LINK	03E	FOCS $\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV

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

<0.2	90	BERGFELD	96	CLE2 $e^+e^- \approx \Upsilon(4S)$
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$\Gamma(\Xi(1620)^0 \pi^+)/\Gamma_{\text{total}}$   $\Gamma_{13}/\Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	SUMIHAMA	19	BELL $e^+e^-$ mostly at $\Upsilon(4S)$

$\Gamma(\Xi(1690)^0 \pi^+)/\Gamma_{\text{total}}$					$\Gamma_{14}/\Gamma$
VALUE		DOCUMENT ID	TECN	COMMENT	
<b>seen</b>		SUMIHAMA	19	BELL	$e^+ e^-$ mostly at $\Upsilon(4S)$

$\Gamma(\Xi^0 \pi^+ \pi^0)/\Gamma(\Xi^- 2\pi^+)$					$\Gamma_{15}/\Gamma_{11}$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>2.34 ± 0.57 ± 0.37</b>	81	EDWARDS	96	CLE2	$e^+ e^- \approx \Upsilon(4S)$

$\Gamma(\Xi(1530)^0 \pi^+)/\Gamma(\Xi^0 \pi^+ \pi^0)$					$\Gamma_{12}/\Gamma_{15}$
VALUE	CL%	DOCUMENT ID	TECN	COMMENT	

• • • We do not use the following data for averages, fits, limits, etc. • • •  
 <0.3                      90                      EDWARDS                      96                      CLE2                       $e^+ e^- \approx \Upsilon(4S)$

$\Gamma(\Xi^0 \pi^- 2\pi^+)/\Gamma(\Xi^- 2\pi^+)$					$\Gamma_{16}/\Gamma_{11}$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>1.74 ± 0.42 ± 0.27</b>	57	EDWARDS	96	CLE2	$e^+ e^- \approx \Upsilon(4S)$

$\Gamma(\Xi^0 e^+ \nu_e)/\Gamma(\Xi^- 2\pi^+)$					$\Gamma_{17}/\Gamma_{11}$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>2.3 ± 0.6<sup>+0.3</sup><sub>-0.6</sub></b>	41	ALEXANDER	95B	CLE2	$e^+ e^- \approx \Upsilon(4S)$

$\Gamma(\Omega^- K^+ \pi^+)/\Gamma(\Xi^- 2\pi^+)$					$\Gamma_{18}/\Gamma_{11}$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>0.07 ± 0.03 ± 0.03</b>	14	LINK	03E	FOCS	< 0.12, 90% CL

$\Gamma(p K^- \pi^+)/\Gamma_{\text{total}}$					$\Gamma_{19}/\Gamma$
VALUE (units $10^{-3}$ )	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>6.2 ± 3.0 OUR AVERAGE</b>		Error includes scale factor of 1.5.			
11.35 ± 0.02 ± 3.87	1.6M	<sup>1</sup> AAIJ	20AH	LHCB	$pp$ at 13 TeV
4.5 ± 2.1 ± 0.7	24	<sup>2</sup> LI	19C	BELL	$e^+ e^- \approx \Upsilon(4S)$

<sup>1</sup>AAIJ 20AH extracts  $B(\Xi_c^+ \rightarrow p K^- \pi^+)$  assuming production fraction ratios  $f_{\Xi_c^0}/f_{\Lambda_c^+}$   
 =  $(9.7 \pm 0.9 \pm 3.1) \times 10^{-2}$  (from AAJ 19AB plus heavy quark symmetry arguments)  
 as well as  $f_{\Xi_c^0}/f_{\Xi_c^+} = 1.00 \pm 0.01$ , and uses the input  $B(\Lambda_c^+ \rightarrow p K^- \pi^+) = (6.23 \pm 0.33) \times 10^{-2}$ . Its correlation with  $B(\Xi_c^0 \rightarrow \Lambda_c^+ \pi^-)$ , as measured in AAJ 20AH, is 0.414.  
<sup>2</sup>LI 19C report a significance of 4.4  $\sigma$  for the observation of this decay mode, observed in  $\Xi_c^+$  from  $\bar{B}^0 \rightarrow \bar{\Lambda}_c^- \Xi_c^+$ .

———— Cabibbo-suppressed decays ————

$\Gamma(p K^- \pi^+)/\Gamma(\Xi^- 2\pi^+)$					$\Gamma_{19}/\Gamma_{11}$
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>0.21 ± 0.04 OUR AVERAGE</b>					
0.194 ± 0.054	47 ± 11	VAZQUEZ-JA..08	SELX	$\Sigma^-$ nucleus, 600 GeV	
0.234 ± 0.047 ± 0.022	202	LINK	01B	FOCS	$\gamma$ nucleus
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.20 ± 0.04 ± 0.02	76	JUN	00	SELX	See VAZQUEZ-JAUREGUI 08

$\Gamma(\rho\bar{K}^*(892)^0)/\Gamma(\rho K^-\pi^+)$   $\Gamma_{20}/\Gamma_{19}$

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

VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.54±0.09±0.05</b>	LINK	01B FOCS	$\gamma$ nucleus

$\Gamma(\Sigma^+\pi^+\pi^-)/\Gamma(\Xi^-2\pi^+)$   $\Gamma_{21}/\Gamma_{11}$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.48±0.20</b>	21 ± 8	VAZQUEZ-JA...08	SELX	$\Sigma^-$ nucleus, 600 GeV

$\Gamma(\Sigma^-2\pi^+)/\Gamma(\Xi^-2\pi^+)$   $\Gamma_{22}/\Gamma_{11}$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.18±0.09</b>	10 ± 4	VAZQUEZ-JA...08	SELX	$\Sigma^-$ nucleus, 600 GeV

$\Gamma(\Sigma^+K^+K^-)/\Gamma(\Sigma^+K^-\pi^+)$   $\Gamma_{23}/\Gamma_7$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>0.16±0.06±0.01</b>	17	LINK	03E FOCS	$\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV

$\Gamma(\Sigma^+\phi)/\Gamma(\Sigma^+K^-\pi^+)$   $\Gamma_{24}/\Gamma_7$

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

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;0.12</b>	90	LINK	03E FOCS	$\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV

$\Gamma(\rho\phi(1020))/\Gamma(\rho K^-\pi^+)$   $\Gamma_{26}/\Gamma_{19}$

VALUE (units $10^{-3}$ )	EVTS	DOCUMENT ID	TECN	COMMENT
<b>19.8±0.7±0.9±0.2</b>	3.4k	<sup>1</sup> AAIJ	19i LHCB	$pp$ at 8 TeV

<sup>1</sup>The last uncertainty is due to the uncertainty in the  $\phi \rightarrow K^+K^-$  branching fraction.

$\Gamma(\Xi(1690)^0 K^+ \times B(\Xi(1690)^0 \rightarrow \Sigma^+ K^-))/\Gamma(\Sigma^+ K^-\pi^+)$   $\Gamma_{25}/\Gamma_7$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;0.05</b>	90	LINK	03E FOCS	$\gamma$ nucleus, $\bar{E}_\gamma \approx 180$ GeV

### $\Xi_c^+$ REFERENCES

AAIJ	20AH	PR D102 071101	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	19AB	PR D99 052006	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	19AG	PR D100 032001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	19I	JHEP 1904 084	R. Aaij <i>et al.</i>	(LHCb Collab.)
LI	19C	PR D100 031101	Y.B. Li <i>et al.</i>	(BELLE Collab.)
SUMIHAMA	19	PRL 122 072501	M. Sumihama <i>et al.</i>	(BELLE Collab.)
AAIJ	14Z	PRL 113 032001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AALTONEN	14B	PR D89 072014	T. Aaltonen <i>et al.</i>	(CDF Collab.)
VAZQUEZ-JA...	08	PL B666 299	E. Vazquez-Jauregui <i>et al.</i>	(SELEX Collab.)
LESIAK	05	PL B605 237	T. Lesiak <i>et al.</i>	(BELLE Collab.)
Also		PL B617 198 (errata.)	T. Lesiak <i>et al.</i>	(BELLE Collab.)
LINK	03E	PL B571 139	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
MAHMOOD	02	PR D65 031102	A.H. Mahmood <i>et al.</i>	(CLEO Collab.)
LINK	01B	PL B512 277	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
LINK	01D	PL B523 53	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
JUN	00	PRL 84 1857	S.Y. Jun <i>et al.</i>	(FNAL SELEX Collab.)
FRABETTI	98	PL B427 211	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
BERGFELD	96	PL B365 431	T. Bergfeld <i>et al.</i>	(CLEO Collab.)
EDWARDS	96	PL B373 261	K.W. Edwards <i>et al.</i>	(CLEO Collab.)

ALEXANDER	95B	PRL 74 3113	J. Alexander <i>et al.</i>	(CLEO Collab.)
Also		PRL 75 4155 (errat.)	J. Alexander <i>et al.</i>	(CLEO Collab.)
AVERY	95	PRL 75 4364	P. Avery <i>et al.</i>	(CLEO Collab.)
FRABETTI	93B	PRL 70 1381	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
ALBRECHT	90F	PL B247 121	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
ALAM	89	PL B226 401	M.S. Alam <i>et al.</i>	(CLEO Collab.)
BARLAG	89C	PL B233 522	S. Barlag <i>et al.</i>	(ACCMOR Collab.)
COTEUS	87	PRL 59 1530	P. Coteus <i>et al.</i>	(FNAL E400 Collab.)
BIAGI	85C	PL 150B 230	S.F. Biagi <i>et al.</i>	(CERN WA62 Collab.)
BIAGI	83	PL 122B 455	S.F. Biagi <i>et al.</i>	(CERN WA62 Collab.)

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