



$I(J^P) = 0(\frac{1}{2}^+)$  Status: \*\*\*

The quantum numbers have not been measured, but are simply assigned in accord with the quark model, in which the  $\Omega_c^0$  is the *ssc* ground state. No absolute branching fractions have been measured.

$\Omega_c^0$  MASS

| VALUE (MeV)                                                                                                                                                                                                                                   | EVTS | DOCUMENT ID                 | TECN | COMMENT                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------|------|-------------------------------------------------------------|
| <b>2695.3 ± 0.4 OUR FIT</b>                                                                                                                                                                                                                   |      |                             |      |                                                             |
| <b>2695.3 ± 0.4 OUR AVERAGE</b>                                                                                                                                                                                                               |      |                             |      |                                                             |
| 2695.28 ± 0.07 ± 0.41                                                                                                                                                                                                                         | 9330 | <sup>1</sup> AAIJ           | 24C  | LHCB 5.4fb <sup>-1</sup> , <i>pp</i> at 13 TeV              |
| 2693.6 ± 0.3 <sup>+1.8</sup> / <sub>-1.5</sub>                                                                                                                                                                                                | 725  | SOLOVIEVA                   | 09   | BELL $\Omega^- \pi^+$ in $e^+ e^- \rightarrow \Upsilon(4S)$ |
| 2694.6 ± 2.6 ± 1.9                                                                                                                                                                                                                            | 40   | <sup>2</sup> CRONIN-HEN..01 | CLE2 | $e^+ e^- \approx 10.6$ GeV                                  |
| 2699.9 ± 1.5 ± 2.5                                                                                                                                                                                                                            | 42   | <sup>3</sup> FRABETTI       | 94H  | E687 $\gamma$ Be, $\overline{E}_\gamma = 221$ GeV           |
| • • • We do not use the following data for averages, fits, limits, etc. • • •                                                                                                                                                                 |      |                             |      |                                                             |
| 2705.9 ± 3.3 ± 2.0                                                                                                                                                                                                                            | 10   | <sup>4</sup> FRABETTI       | 93   | E687 $\gamma$ Be, $\overline{E}_\gamma = 221$ GeV           |
| 2719.0 ± 7.0 ± 2.5                                                                                                                                                                                                                            | 11   | <sup>5</sup> ALBRECHT       | 92H  | ARG $e^+ e^- \approx 10.6$ GeV                              |
| 2740 ± 20                                                                                                                                                                                                                                     | 3    | BIAGI                       | 85B  | SPEC $\Sigma^-$ Be 135 GeV/ <i>c</i>                        |
| <sup>1</sup> AAIJ 24C reports this measurements as 2695.28 ± 0.07 ± 0.27 ± 0.30 MeV. The last uncertainty is due to the uncertainty in the $\Omega^-$ mass. Also reported is $m_{\Omega_c^0} - m_{\Omega^-} = 1022.83 \pm 0.07 \pm 0.27$ MeV. |      |                             |      |                                                             |
| <sup>2</sup> CRONIN-HENNESSY 01 sees 40.4 ± 9.0 events in a sum over five channels.                                                                                                                                                           |      |                             |      |                                                             |
| <sup>3</sup> FRABETTI 94H claims a signal of 42.5 ± 8.8 $\Sigma^+ K^- K^- \pi^+$ events. The background is about 24 events.                                                                                                                   |      |                             |      |                                                             |
| <sup>4</sup> FRABETTI 93 claims a signal of 10.3 ± 3.9 $\Omega^- \pi^+$ events above a background of 5.8 events.                                                                                                                              |      |                             |      |                                                             |
| <sup>5</sup> ALBRECHT 92H claims a signal of 11.5 ± 4.3 $\Xi^- K^- \pi^+ \pi^+$ events. The background is about 5 events.                                                                                                                     |      |                             |      |                                                             |

$\Omega_c^0$  MEAN LIFE

| VALUE (10 <sup>-15</sup> s)                                                   | EVTS           | DOCUMENT ID         | TECN | COMMENT                                                                                   |
|-------------------------------------------------------------------------------|----------------|---------------------|------|-------------------------------------------------------------------------------------------|
| <b>273 ± 12 OUR AVERAGE</b>                                                   |                |                     |      |                                                                                           |
| 243 ± 48 ± 11                                                                 | 88             | ABUDINEN            | 23   | BEL2 $e^+ e^- \rightarrow \Omega_c^0 + X$ ,<br>$\Omega_c^0 \rightarrow \Omega^- \pi^+$    |
| 276.5 ± 13.4 ± 4.5                                                            | <sup>1,2</sup> | AAIJ                | 22Y  | LHCB $pp \rightarrow \Omega_c X$ , $\Omega_c \rightarrow p K^- K^- \pi^+$                 |
| 268 ± 24 ± 10                                                                 | 978            | <sup>1,3</sup> AAIJ | 18J  | LHCB $\Omega_b \rightarrow \Omega_c \mu \nu + X$ , $\Omega_c \rightarrow p K^- K^- \pi^+$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                |                     |      |                                                                                           |
| 72 ± 11 ± 11                                                                  | 64             | LINK                | 03C  | FOCS $\Omega^- \pi^+$ , $\Xi^- K^- \pi^+ \pi^+$                                           |
| 55 <sup>+13</sup> / <sub>-11</sub> <sup>+18</sup> / <sub>-23</sub>            | 86             | ADAMOVICH           | 95B  | WA89 $\Omega^- \pi^- \pi^+ \pi^+$ ,<br>$\Xi^- K^- \pi^+ \pi^+$                            |
| 86 <sup>+27</sup> / <sub>-20</sub> ± 28                                       | 25             | FRABETTI            | 95D  | E687 $\Sigma^+ K^- K^- \pi^+$                                                             |

<sup>1</sup>Recent measurements by AAIJ 18J, AAIJ 22Y, and ABUDINEN 23 obtain consistent results that are nearly four times larger than the average result of previous experiments,  $(69 \pm 12) \times 10^{-15}$  s. We go with the more recent results, mostly obtained with much larger data samples, and also note the positive correlation between the measured value and the inverse of the estimated statistical uncertainty in lifetime measurements.

<sup>2</sup>AAIJ 22Y reports this measurement as  $(276.5 \pm 13.4 \pm 4.4 \pm 0.7) \times 10^{-15}$  s. The last uncertainty is due to the uncertainty on the  $D^0$  lifetime  $\tau_{D^0} = (410.1 \pm 1.5)$  fs from PDG 20. Measured in  $\Omega_c$  produced promptly in  $pp$  collisions, using  $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$  as normalisation mode.

<sup>3</sup>Measured using  $\Omega_c$  produced in semileptonic  $\Omega_b$  decays.

## $\Omega_c^0$ DECAY MODES

No absolute branching fractions have been measured. The following are branching *ratios* relative to  $\Omega^- \pi^+$ .

| Mode                                                                                          | Fraction ( $\Gamma_i/\Gamma$ ) | Confidence level |
|-----------------------------------------------------------------------------------------------|--------------------------------|------------------|
| <b>Cabibbo-favored (<math>S = -3</math>) decays — relative to <math>\Omega^- \pi^+</math></b> |                                |                  |
| $\Gamma_1$ $\Omega^- \pi^+$                                                                   | <b>DEFINED AS 1</b>            |                  |
| $\Gamma_2$ $\Omega^- \pi^+ \pi^0$                                                             | $1.80 \pm 0.33$                |                  |
| $\Gamma_3$ $\Omega^- \rho^+$                                                                  | $>1.3$                         | 90%              |
| $\Gamma_4$ $\Omega^- \pi^- 2\pi^+$                                                            | $0.31 \pm 0.05$                |                  |
| $\Gamma_5$ $\Omega^- e^+ \nu_e$                                                               | $1.98 \pm 0.29$                |                  |
| $\Gamma_6$ $\Omega^- \mu^+ \nu_\mu$                                                           | $1.94 \pm 0.21$                |                  |
| $\Gamma_7$ $\Xi^0 \bar{K}^0$                                                                  | $1.64 \pm 0.29$                |                  |
| $\Gamma_8$ $\Xi^0 K^- \pi^+$                                                                  | $1.20 \pm 0.18$                |                  |
| $\Gamma_9$ $\Xi^0 \bar{K}^{*0}, \bar{K}^{*0} \rightarrow K^- \pi^+$                           | $0.68 \pm 0.16$                |                  |
| $\Gamma_{10}$ $\Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow \Xi^0 K^-$                    | $0.12 \pm 0.05$                |                  |
| $\Gamma_{11}$ $\Xi^- \bar{K}^0 \pi^+$                                                         | $2.12 \pm 0.28$                |                  |
| $\Gamma_{12}$ $\Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow \Xi^- \bar{K}^0$              | $0.12 \pm 0.06$                |                  |
| $\Gamma_{13}$ $\Xi^- K^- 2\pi^+$                                                              | $0.63 \pm 0.09$                |                  |
| $\Gamma_{14}$ $\Xi(1530)^0 K^- \pi^+, \Xi^{*0} \rightarrow \Xi^- \pi^+$                       | $0.21 \pm 0.06$                |                  |
| $\Gamma_{15}$ $\Xi^- \bar{K}^{*0} \pi^+$                                                      | $0.34 \pm 0.11$                |                  |
| $\Gamma_{16}$ $\rho K^- K^- \pi^+$                                                            | seen                           |                  |
| $\Gamma_{17}$ $\Sigma^+ K^- K^- \pi^+$                                                        | $<0.32$                        | 90%              |
| $\Gamma_{18}$ $\Lambda \bar{K}^0 \bar{K}^0$                                                   | $1.72 \pm 0.35$                |                  |
| <b>Singly Cabibbo-suppressed modes — relative to <math>\Omega^- \pi^+</math></b>              |                                |                  |
| $\Gamma_{19}$ $\Xi^- \pi^+$                                                                   | $0.161 \pm 0.010$              |                  |
| $\Gamma_{20}$ $\Omega^- K^+$                                                                  | $0.061 \pm 0.006$              |                  |

**Doubly Cabibbo-suppressed modes — relative to  $\Omega^- \pi^+$**  $\Gamma_{21} \quad \Xi^- K^+$ 

&lt;0.07

90%

 **$\Omega_c^0$  BRANCHING RATIOS**

A few early but now obsolete measurements have been omitted. See K.A. Olive, et al. (Particle Data Group), Chinese Physics **C38** 070001 (2014).

 $\Gamma(\Omega^- \pi^+ \pi^0)/\Gamma(\Omega^- \pi^+)$  $\Gamma_2/\Gamma_1$ 

| VALUE                        | EVTS | DOCUMENT ID                         | TECN      | COMMENT                                      |
|------------------------------|------|-------------------------------------|-----------|----------------------------------------------|
| <b>1.80±0.33 OUR AVERAGE</b> |      | Error includes scale factor of 1.9. |           |                                              |
| 2.00±0.17±0.11               | 403  | YELTON                              | 18 BELL   | $e^+ e^- \rightarrow \Upsilon(4S)$ , +higher |
| 1.27±0.31±0.11               | 64   | AUBERT                              | 07AH BABR | $e^+ e^- \approx \Upsilon(4S)$               |

 $\Gamma(\Omega^- \rho^+)/\Gamma(\Omega^- \pi^+ \pi^0)$  $\Gamma_3/\Gamma_2$ 

| VALUE           | CL% | DOCUMENT ID         | TECN    | COMMENT                                      |
|-----------------|-----|---------------------|---------|----------------------------------------------|
| <b>&gt;0.71</b> | 90  | <sup>1</sup> YELTON | 18 BELL | $e^+ e^- \rightarrow \Upsilon(4S)$ , +higher |

<sup>1</sup> This submode fraction is evaluated from a background-subtracted signal in a mass plot. Result ignores interference effects and systematic uncertainties, which YELTON 18 claim are both small.

 $\Gamma(\Omega^- \pi^- 2\pi^+)/\Gamma(\Omega^- \pi^+)$  $\Gamma_4/\Gamma_1$ 

| VALUE                        | EVTS | DOCUMENT ID | TECN      | COMMENT                                      |
|------------------------------|------|-------------|-----------|----------------------------------------------|
| <b>0.31±0.05 OUR AVERAGE</b> |      |             |           |                                              |
| 0.32±0.05±0.02               | 108  | YELTON      | 18 BELL   | $e^+ e^- \rightarrow \Upsilon(4S)$ , +higher |
| 0.28±0.09±0.01               | 25   | AUBERT      | 07AH BABR | $e^+ e^- \approx \Upsilon(4S)$               |

 $\Gamma(\Omega^- e^+ \nu_e)/\Gamma(\Omega^- \pi^+)$  $\Gamma_5/\Gamma_1$ 

| VALUE                                                                         | EVTS | DOCUMENT ID                         | TECN     | COMMENT                        |
|-------------------------------------------------------------------------------|------|-------------------------------------|----------|--------------------------------|
| <b>1.84±0.32 OUR AVERAGE</b>                                                  |      | Error includes scale factor of 2.3. |          |                                |
| 1.12±0.22±0.27                                                                | 232  | <sup>1</sup> ACHARYA                | 24A ALCE | $pp$ at 13 TeV                 |
| 1.98±0.13±0.08                                                                |      | LI                                  | 22A BELL | $e^+ e^-$ at $\Upsilon(nS)$    |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |      |                                     |          |                                |
| 2.4 ±1.1 ±0.2                                                                 | 11   | <sup>2</sup> AMMAR                  | 02 CLE2  | $e^+ e^- \approx \Upsilon(4S)$ |

<sup>1</sup> ACHARYA 24A measurement performed over  $p_T$  intervals in the range  $2 < p_T < 12$  GeV, from which a  $p_T$ -independent branching ratio is derived from a weighted average over  $p_T$ .

<sup>2</sup> AMMAR 02 reported  $0.41 \pm 0.19 \pm 0.04$  for the inverse of this branching fraction.

 $\Gamma(\Omega^- \mu^+ \nu_\mu)/\Gamma(\Omega^- \pi^+)$  $\Gamma_6/\Gamma_1$ 

| VALUE                 | DOCUMENT ID | TECN     | COMMENT                     |
|-----------------------|-------------|----------|-----------------------------|
| <b>1.94±0.18±0.10</b> | LI          | 22A BELL | $e^+ e^-$ at $\Upsilon(nS)$ |

 $\Gamma(\Omega^- e^+ \nu_e)/\Gamma(\Omega^- \mu^+ \nu_\mu)$  $\Gamma_5/\Gamma_6$ 

| VALUE                 | DOCUMENT ID | TECN     | COMMENT                     |
|-----------------------|-------------|----------|-----------------------------|
| <b>1.02±0.10±0.02</b> | LI          | 22A BELL | $e^+ e^-$ at $\Upsilon(nS)$ |

$$\Gamma(\Xi^0 \bar{K}^0)/\Gamma(\Omega^- \pi^+) \quad \Gamma_7/\Gamma_1$$

| VALUE                 | EVTS | DOCUMENT ID | TECN | COMMENT                                          |
|-----------------------|------|-------------|------|--------------------------------------------------|
| <b>1.64±0.26±0.12</b> | 98   | YELTON      | 18   | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

$$\Gamma(\Xi^0 K^- \pi^+)/\Gamma(\Omega^- \pi^+) \quad \Gamma_8/\Gamma_1$$

| VALUE                 | EVTS | DOCUMENT ID | TECN | COMMENT                                          |
|-----------------------|------|-------------|------|--------------------------------------------------|
| <b>1.20±0.16±0.08</b> | 168  | YELTON      | 18   | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

$$\Gamma(\Xi^0 \bar{K}^{*0}, \bar{K}^{*0} \rightarrow K^- \pi^+)/\Gamma(\Xi^0 K^- \pi^+) \quad \Gamma_9/\Gamma_8$$

| VALUE            | EVTS | DOCUMENT ID         | TECN | COMMENT                                          |
|------------------|------|---------------------|------|--------------------------------------------------|
| <b>0.57±0.10</b> | 95   | <sup>1</sup> YELTON | 18   | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

<sup>1</sup> This submode fraction is evaluated from a background-subtracted signal in a mass plot. Result ignores interference effects and systematic uncertainties, which YELTON 18 claim are both small.

$$\Gamma(\Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow \Xi^0 K^-)/\Gamma(\Xi^0 K^- \pi^+) \quad \Gamma_{10}/\Gamma_8$$

| VALUE (units $10^{-2}$ ) | EVTS | DOCUMENT ID     | TECN | COMMENT                         |
|--------------------------|------|-----------------|------|---------------------------------|
| <b>9.6±3.2±1.8</b>       | 28   | <sup>1</sup> LI | 21D  | BELL $e^+e^-$ at $\Upsilon(nS)$ |

<sup>1</sup> LI 21D reports the significance of the  $\Omega(2012)$  signal is  $4.2\sigma$  including systematic uncertainties. Also measures  $B(\Omega_c^0 \rightarrow \Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow (\bar{K}\Xi)^-)/B(\Omega_c^0 \rightarrow \Xi^0 K^- \pi^+) = 0.220 \pm 0.059 \pm 0.035$ .

$$\Gamma(\Xi^- \bar{K}^0 \pi^+)/\Gamma(\Omega^- \pi^+) \quad \Gamma_{11}/\Gamma_1$$

| VALUE                 | EVTS | DOCUMENT ID | TECN | COMMENT                                          |
|-----------------------|------|-------------|------|--------------------------------------------------|
| <b>2.12±0.24±0.14</b> | 349  | YELTON      | 18   | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

$$\Gamma(\Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow \Xi^- \bar{K}^0)/\Gamma(\Xi^- \bar{K}^0 \pi^+) \quad \Gamma_{12}/\Gamma_{11}$$

| VALUE (units $10^{-2}$ ) | EVTS | DOCUMENT ID     | TECN | COMMENT                         |
|--------------------------|------|-----------------|------|---------------------------------|
| <b>5.5±2.8±0.7</b>       | 18   | <sup>1</sup> LI | 21D  | BELL $e^+e^-$ at $\Upsilon(nS)$ |

<sup>1</sup> LI 21D reports the significance of the  $\Omega(2012)$  signal is  $4.2\sigma$  including systematic uncertainties. Also measures  $B(\Omega_c^0 \rightarrow \Omega(2012)^- \pi^+, \Omega(2012)^- \rightarrow (\bar{K}\Xi)^-)/B(\Omega_c^0 \rightarrow \Xi^0 K^- \pi^+) = 0.220 \pm 0.059 \pm 0.035$ .

$$\Gamma(\Xi^- K^- 2\pi^+)/\Gamma(\Omega^- \pi^+) \quad \Gamma_{13}/\Gamma_1$$

| VALUE                        | EVTS | DOCUMENT ID                         | TECN      | COMMENT                                          |
|------------------------------|------|-------------------------------------|-----------|--------------------------------------------------|
| <b>0.63±0.09 OUR AVERAGE</b> |      | Error includes scale factor of 1.4. |           |                                                  |
| 0.68±0.07±0.03               | 278  | YELTON                              | 18        | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |
| 0.46±0.13±0.03               | 45   | AUBERT                              | 07AH BABR | $e^+e^- \approx \Upsilon(4S)$                    |

$$\Gamma(\Xi(1530)^0 K^- \pi^+, \Xi^{*0} \rightarrow \Xi^- \pi^+)/\Gamma(\Xi^- K^- 2\pi^+) \quad \Gamma_{14}/\Gamma_{13}$$

| VALUE            | EVTS | DOCUMENT ID         | TECN | COMMENT                                          |
|------------------|------|---------------------|------|--------------------------------------------------|
| <b>0.33±0.09</b> | 74   | <sup>1</sup> YELTON | 18   | BELL $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

<sup>1</sup> This submode fraction is evaluated from a background-subtracted signal in a mass plot. Result ignores interference effects and systematic uncertainties, which YELTON 18 claim are both small.

$\Gamma(\Xi^- \bar{K}^0 \pi^+)/\Gamma(\Xi^- K^- 2\pi^+)$  $\Gamma_{15}/\Gamma_{13}$ 

| VALUE            | EVTS | DOCUMENT ID         | TECN    | COMMENT                                     |
|------------------|------|---------------------|---------|---------------------------------------------|
| <b>0.55±0.16</b> | 136  | <sup>1</sup> YELTON | 18 BELL | $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

<sup>1</sup> This submode fraction is evaluated from a background-subtracted signal in a mass plot. Result ignores interference effects and systematic uncertainties, which YELTON 18 claim are both small.

 $\Gamma(pK^- K^- \pi^+)/\Gamma_{\text{total}}$  $\Gamma_{16}/\Gamma$ 

| VALUE       | DOCUMENT ID | TECN     | COMMENT          |
|-------------|-------------|----------|------------------|
| <b>seen</b> | AAIJ        | 160 LHCb | $pp$ at 7, 8 TeV |

 $\Gamma(\Sigma^+ K^- K^- \pi^+)/\Gamma(\Omega^- \pi^+)$  $\Gamma_{17}/\Gamma_1$ 

| VALUE           | CL% | EVTS | DOCUMENT ID | TECN    | COMMENT                                     |
|-----------------|-----|------|-------------|---------|---------------------------------------------|
| <b>&lt;0.32</b> | 90  | 17   | YELTON      | 18 BELL | $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

 $\Gamma(\Lambda \bar{K}^0 \bar{K}^0)/\Gamma(\Omega^- \pi^+)$  $\Gamma_{18}/\Gamma_1$ 

| VALUE                 | EVTS | DOCUMENT ID | TECN    | COMMENT                                     |
|-----------------------|------|-------------|---------|---------------------------------------------|
| <b>1.72±0.32±0.14</b> | 95   | YELTON      | 18 BELL | $e^+e^- \rightarrow \Upsilon(4S)$ , +higher |

 $\Gamma(\Xi^- \pi^+)/\Gamma(\Omega^- \pi^+)$  $\Gamma_{19}/\Gamma_1$ 

| VALUE (units $10^{-2}$ )     | EVTS | DOCUMENT ID       | TECN     | COMMENT                              |
|------------------------------|------|-------------------|----------|--------------------------------------|
| <b>16.1 ±1.0 OUR AVERAGE</b> |      |                   |          |                                      |
| 15.81±0.87±0.47              | 2780 | <sup>1</sup> AAIJ | 24C LHCb | 5.4fb <sup>-1</sup> , $pp$ at 13 TeV |
| 25.3 ±5.2 ±3.0               | 208  | HAN               | 23 BELL  | $e^+e^- \rightarrow \Upsilon(nS)$    |

<sup>1</sup> AAIJ 24C reports this measurements as  $(15.81 \pm 0.87 \pm 0.44 \pm 0.16)\%$ . The last uncertainty is due to branching ratios of  $\Omega^- \rightarrow \Lambda K^-$  and  $\Xi^- \rightarrow \Lambda \pi^-$  decays taken as external inputs, which are taken to be  $67.8 \pm 0.7\%$  and  $99.887 \pm 0.035\%$ , respectively.

 $\Gamma(\Omega^- K^+)/\Gamma(\Omega^- \pi^+)$  $\Gamma_{20}/\Gamma_1$ 

| VALUE (units $10^{-2}$ )                                                      | CL% | EVTS | DOCUMENT ID | TECN     | COMMENT                              |
|-------------------------------------------------------------------------------|-----|------|-------------|----------|--------------------------------------|
| <b>6.08±0.51±0.40</b>                                                         |     | 425  | AAIJ        | 24C LHCb | 5.4fb <sup>-1</sup> , $pp$ at 13 TeV |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |     |      |             |          |                                      |
| <29                                                                           | 90  | HAN  | 23 BELL     |          | $e^+e^- \rightarrow \Upsilon(nS)$    |

 $\Gamma(\Xi^- K^+)/\Gamma(\Omega^- \pi^+)$  $\Gamma_{21}/\Gamma_1$ 

| VALUE            | CL% | DOCUMENT ID | TECN    | COMMENT                           |
|------------------|-----|-------------|---------|-----------------------------------|
| <b>&lt;0.070</b> | 90  | HAN         | 23 BELL | $e^+e^- \rightarrow \Upsilon(nS)$ |

 $\Omega_c^0$  REFERENCES

|          |     |                  |                           |                    |
|----------|-----|------------------|---------------------------|--------------------|
| AAIJ     | 24C | PRL 132 081802   | R. Aaij <i>et al.</i>     | (LHCb Collab.)     |
| ACHARYA  | 24A | PR D110 032014   | S. Acharya <i>et al.</i>  | (ALICE Collab.)    |
| ABUDINEN | 23  | PR D107 L031103  | F. Abudinen <i>et al.</i> | (BELLE II Collab.) |
| HAN      | 23  | JHEP 2301 055    | X. Han <i>et al.</i>      | (BELLE Collab.)    |
| AAIJ     | 22Y | SCIB 67 479      | R. Aaij <i>et al.</i>     | (LHCb Collab.)     |
| LI       | 22A | PR D105 L091101  | Y.B. Li <i>et al.</i>     | (BELLE Collab.)    |
| LI       | 21D | PR D104 052005   | Y.B. Li <i>et al.</i>     | (BELLE Collab.)    |
| PDG      | 20  | PTEP 2020 083C01 | P.A. Zyla <i>et al.</i>   | (PDG Collab.)      |
| AAIJ     | 18J | PRL 121 092003   | R. Aaij <i>et al.</i>     | (LHCb Collab.)     |
| YELTON   | 18  | PR D97 032001    | J. Yelton <i>et al.</i>   | (BELLE Collab.)    |
| AAIJ     | 16O | PR D93 092007    | R. Aaij <i>et al.</i>     | (LHCb Collab.)     |

|               |      |               |                                  |                      |
|---------------|------|---------------|----------------------------------|----------------------|
| PDG           | 14   | CP C38 070001 | K. Olive <i>et al.</i>           | (PDG Collab.)        |
| SOLOVIEVA     | 09   | PL B672 1     | E. Solovieva <i>et al.</i>       | (BELLE Collab.)      |
| AUBERT        | 07AH | PRL 99 062001 | B. Aubert <i>et al.</i>          | (BABAR Collab.)      |
| LINK          | 03C  | PL B561 41    | J.M. Link <i>et al.</i>          | (FNAL FOCUS Collab.) |
| AMMAR         | 02   | PRL 89 171803 | R. Ammar <i>et al.</i>           | (CLEO Collab.)       |
| CRONIN-HEN... | 01   | PRL 86 3730   | D. Cronin-Hennessy <i>et al.</i> | (CLEO Collab.)       |
| ADAMOVICH     | 95B  | PL B358 151   | M.I. Adamovich <i>et al.</i>     | (CERN WA89 Collab.)  |
| FRABETTI      | 95D  | PL B357 678   | P.L. Frabetti <i>et al.</i>      | (FNAL E687 Collab.)  |
| FRABETTI      | 94H  | PL B338 106   | P.L. Frabetti <i>et al.</i>      | (FNAL E687 Collab.)  |
| FRABETTI      | 93   | PL B300 190   | P.L. Frabetti <i>et al.</i>      | (FNAL E687 Collab.)  |
| ALBRECHT      | 92H  | PL B288 367   | H. Albrecht <i>et al.</i>        | (ARGUS Collab.)      |
| BIAGI         | 85B  | ZPHY C28 175  | S.F. Biagi <i>et al.</i>         | (CERN WA62 Collab.)  |

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