

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

$I, J, P$  need confirmation.

In the quark model,  $\Xi_b^0$  and  $\Xi_b^-$  are an isodoublet ( $usb, dsb$ ) state; the lowest  $\Xi_b^0$  and  $\Xi_b^-$  ought to have  $J^P = 1/2^+$ . None of  $I, J,$  or  $P$  have actually been measured.

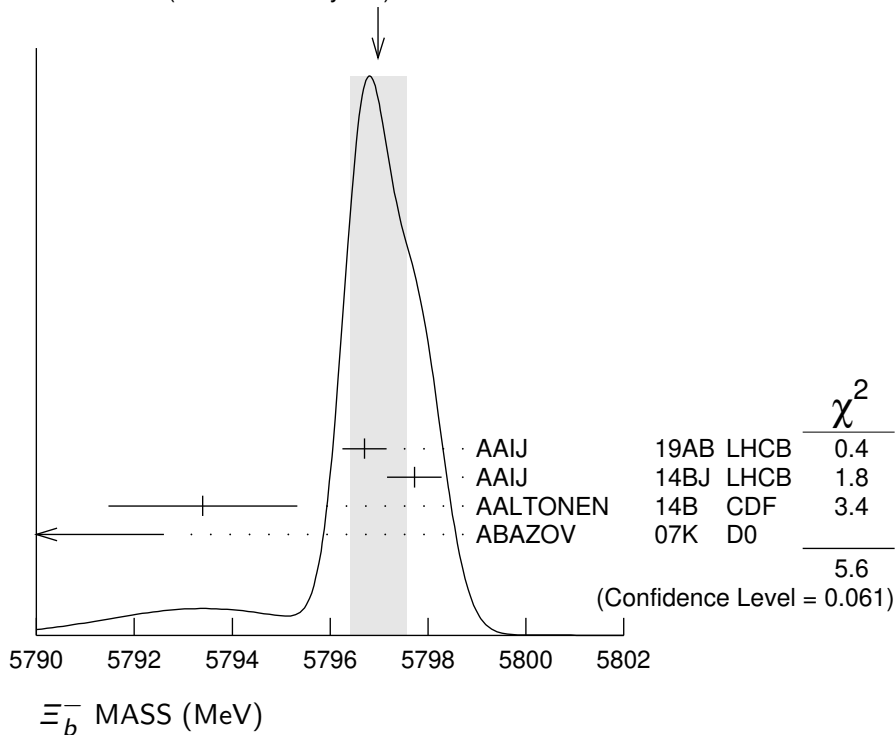
## $\Xi_b^-$ MASS

### $\Xi_b^-$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>5797.0 ± 0.6 OUR AVERAGE</b>	Error includes scale factor of 1.7. See the ideogram below.		
5796.70 ± 0.39 ± 0.23	AAIJ	19AB LHCb	$pp$ at 7, 8 and 13 TeV
5797.72 ± 0.46 ± 0.31	1 AAIJ	14BJ LHCb	$pp$ at 7, 8 TeV
5793.4 ± 1.8 ± 0.7	2 AALTONEN	14B CDF	$p\bar{p}$ at 1.96 TeV
5774 ± 11 ± 15	3 ABAZOV	07K D0	$p\bar{p}$ at 1.96 TeV
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
5795.8 ± 0.9 ± 0.4	4 AAIJ	13AV LHCb	Repl. by AAIJ 19AB
5796.7 ± 5.1 ± 1.4	5 AALTONEN	11X CDF	Repl. by AALTONEN 14B
5790.9 ± 2.6 ± 0.8	6 AALTONEN	09AP CDF	Repl. by AALTONEN 14B
5792.9 ± 2.5 ± 1.7	7 AALTONEN	07A CDF	Repl. by AALTONEN 09AP

WEIGHTED AVERAGE

5797.0 ± 0.6 (Error scaled by 1.7)



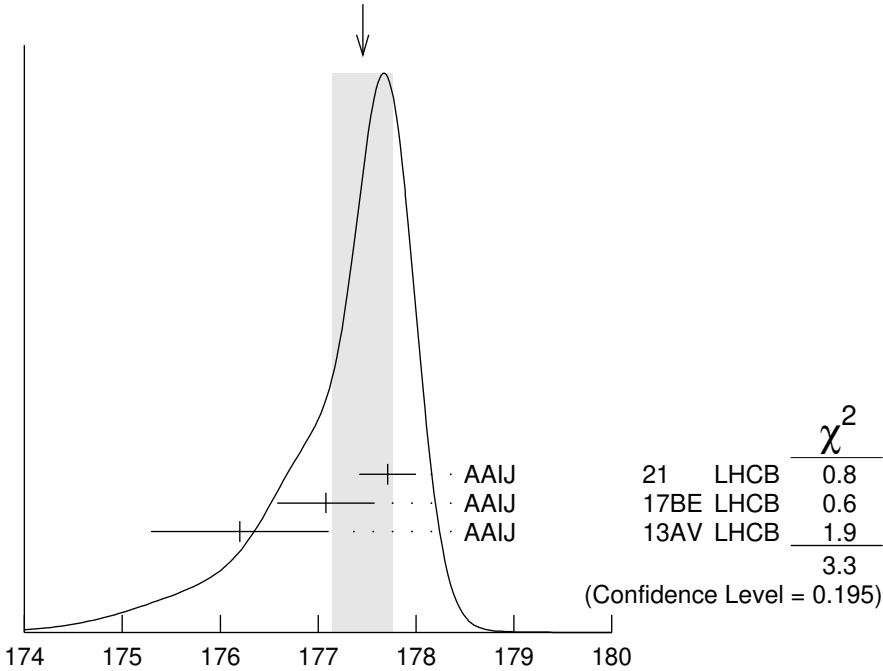
<sup>1</sup> Reconstructed in  $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ ,  $\Xi_c^0 \rightarrow p K^- K^- \pi^+$  decays. Reference  $\Lambda_b^0$  mass 5619.30 ± 0.34 MeV from AAIJ 14AA.

- <sup>2</sup> Uses  $\Xi_b^- \rightarrow J/\psi \Xi^-$  and  $\Xi_c^0 \pi^-$  decays.
- <sup>3</sup> Observed in  $\Xi_b^- \rightarrow J/\psi \Xi^-$  decays with  $15.2 \pm 4.4_{-0.4}^{+1.9}$  candidates, a significance of 5.5 sigma.
- <sup>4</sup> Measured in  $\Xi_b^- \rightarrow J/\psi \Xi^-$  decays.
- <sup>5</sup> Measured in  $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$  with  $25.8_{-5.2}^{+5.5}$  candidates.
- <sup>6</sup> Measured in  $\Xi_b^- \rightarrow J/\psi \Xi^-$  decays with  $66_{-9}^{+14}$  candidates.
- <sup>7</sup> Observed in  $\Xi_b^- \rightarrow J/\psi \Xi^-$  decays with  $17.5 \pm 4.3$  candidates, a significance of 7.7 sigma.

$$m_{\Xi_b^-} - m_{\Lambda_b^0}$$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>177.46 ± 0.31 OUR AVERAGE</b>	Error includes scale factor of 1.3. See the ideogram below.		
177.71 ± 0.24 ± 0.16	1 AAIJ	21 LHCb	pp at 7, 8, 13 TeV
177.08 ± 0.47 ± 0.16	2 AAIJ	17BE LHCb	pp at 7, 8 TeV
176.2 ± 0.9 ± 0.1	3 AAIJ	13AV LHCb	pp at 7 TeV
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
177.73 ± 0.33 ± 0.14	4 AAIJ	17BE LHCb	pp at 7, 8 TeV
178.36 ± 0.46 ± 0.16	1,5 AAIJ	14BJ LHCb	Repl. by AAIJ 2021

WEIGHTED AVERAGE  
177.46 ± 0.31 (Error scaled by 1.3)



$$m_{\Xi_b^-} - m_{\Lambda_b^0} \text{ (MeV)}$$

- <sup>1</sup> Reconstructed in  $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ ,  $\Xi_c^0 \rightarrow p K^- K^- \pi^+$  decays. Reference decays  $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$  were used.
- <sup>2</sup> Reconstructed in  $\Xi_b^- \rightarrow J/\psi \Lambda K^-$  decays. Reference decays  $\Lambda_b^0 \rightarrow J/\psi \Lambda$  were used.
- <sup>3</sup> Reconstructed in  $\Xi_b^- \rightarrow J/\psi \Xi^-$  decays.

<sup>4</sup> Combination of the original statistically independent measurements of AAIJ 17BE and AAIJ 14BJ taking into account correlation between systematic uncertainties.

<sup>5</sup> Combined with AAIJ 17BE.

$$m_{\Xi_b^-} - m_{\Xi_b^0}$$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>5.9 ± 0.6 OUR AVERAGE</b>			
5.92 ± 0.60 ± 0.23	<sup>1</sup> AAIJ	14BJ LHCb	$pp$ at 7, 8 TeV
3.1 ± 5.6 ± 1.3	<sup>2</sup> AALTONEN	11X CDF	$p\bar{p}$ at 1.96 TeV
<sup>1</sup> Reconstructed in $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ , $\Xi_c^0 \rightarrow p K^- K^- \pi^+$ decays. Uses $m(\Xi_b^0) - m(\Lambda_b^0) = 172.44 \pm 0.39 \pm 0.17$ MeV from AAIJ 14Z.			
<sup>2</sup> Derived from measurements in $\Xi_b^0 \rightarrow \Xi_c^+ \pi^-$ and $\Xi_b^- \rightarrow J/\psi \Xi^-$ from AALTONEN 09AP taking correlated systematic uncertainties into account.			

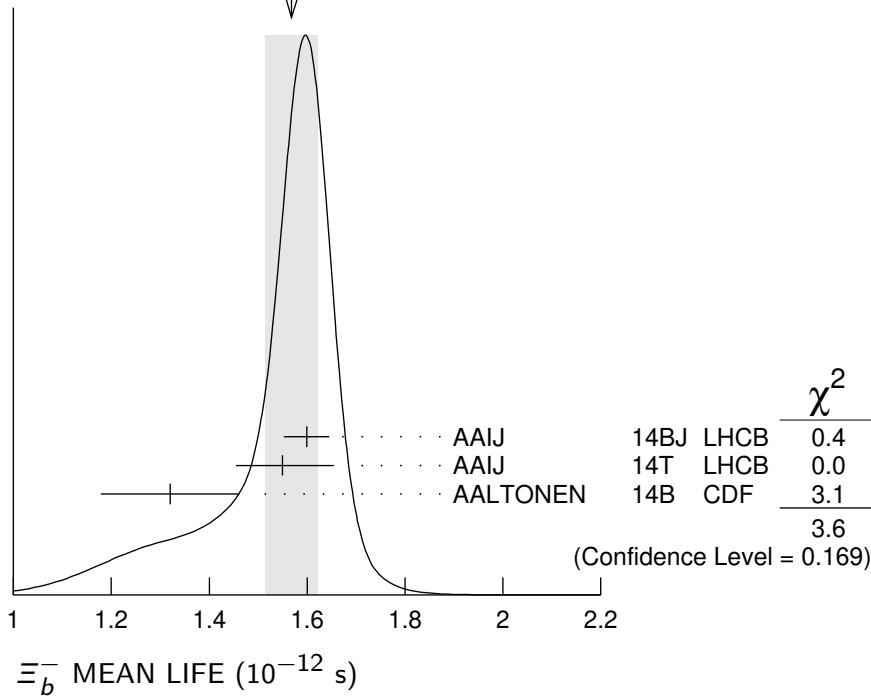
### $\Xi_b^-$ MEAN LIFE

“OUR EVALUATION” is an average using rescaled values of the data listed below. The average and rescaling were performed by the Heavy Flavor Averaging Group (HFLAV) and are described at <https://hflav.web.cern.ch/>. The averaging/rescaling procedure takes into account correlations between the measurements and asymmetric lifetime errors.

### $\Xi_b^-$ MEAN LIFE

VALUE ( $10^{-12}$ s)	DOCUMENT ID	TECN	COMMENT
<b>1.572 ± 0.040 OUR EVALUATION</b>	(Produced by HFLAV)		
<b>1.57 ± 0.05 OUR AVERAGE</b>	Error includes scale factor of 1.3. See the ideogram below.		
1.599 ± 0.041 ± 0.022	<sup>1</sup> AAIJ	14BJ LHCb	$pp$ at 7, 8 TeV
1.55 $^{+0.10}_{-0.09}$ ± 0.03	<sup>2</sup> AAIJ	14T LHCb	$pp$ at 7, 8 TeV
1.32 ± 0.14 ± 0.02	AALTONEN	14B CDF	$p\bar{p}$ at 1.96 TeV
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
1.56 $^{+0.27}_{-0.25}$ ± 0.02	<sup>3</sup> AALTONEN	09AP CDF	Repl. by AALTONEN 14B
<sup>1</sup> Reconstructed in $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ , $\Xi_c^0 \rightarrow p K^- K^- \pi^+$ decays. Reference $\Lambda_b^0$ lifetime $1.479 \pm 0.009 \pm 0.010$ ps from AAIJ 14U.			
<sup>2</sup> Measured in $\Xi_b^- \rightarrow J/\psi \Xi^-$ decays.			
<sup>3</sup> Measured in $\Xi_b^- \rightarrow J/\psi \Xi^-$ decays with $66^{+14}_{-9}$ candidates.			

WEIGHTED AVERAGE  
 $1.57 \pm 0.05$  (Error scaled by 1.3)



### MEAN LIFE RATIOS

$\tau_{\Xi_b^-} / \tau_{\Lambda_b^0}$  mean life ratio

VALUE	DOCUMENT ID	TECN	COMMENT
<b><math>1.089 \pm 0.026 \pm 0.011</math></b>	<sup>1</sup> AAIJ	14BJ LHCb	$pp$ at 7, 8 TeV

<sup>1</sup> Reconstructed in  $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ ,  $\Xi_c^0 \rightarrow p K^- K^- \pi^+$  decays. Reference  $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ .

$\tau_{\Xi_b^-} / \tau_{\Xi_b^0}$  mean life ratio

VALUE	DOCUMENT ID	TECN	COMMENT
<b><math>1.083 \pm 0.032 \pm 0.016</math></b>	<sup>1</sup> AAIJ	14BJ LHCb	$pp$ at 7, 8 TeV

<sup>1</sup> Reconstructed in  $\Xi_b^- \rightarrow \Xi_c^0 \pi^-$ ,  $\Xi_c^0 \rightarrow p K^- K^- \pi^+$  decays. Uses  $\Xi_b^0$  measurements from AAIJ 14Z.

### $\Xi_b^-$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )	Confidence level
$\Gamma_1$ $J/\psi \Xi^- \times B(b \rightarrow \Xi_b^-)$	$(1.02^{+0.26}_{-0.21}) \times 10^{-5}$	
$\Gamma_2$ $J/\psi \Lambda K^- \times B(b \rightarrow \Xi_b^-)$	$(2.5 \pm 0.4) \times 10^{-6}$	
$\Gamma_3$ $p K^- K^- \times B(b \rightarrow \Xi_b^-)$	$(3.7 \pm 0.8) \times 10^{-8}$	
$\Gamma_4$ $p K^- K^-$	seen	
$\Gamma_5$ $p \pi^- \pi^-$		
$\Gamma_6$ $p K^- \pi^-$	seen	

$\Gamma_7$	$\Lambda_b^0 \pi^- \times B(b \rightarrow \Xi_b^-) / B(b \rightarrow \Lambda_b^0)$	$(7.0 \pm 0.9) \times 10^{-4}$	
$\Gamma_8$	$\Xi_c^0 \pi^-$	seen	
$\Gamma_9$	$\Sigma(1385) K^-$	$(2.6 \pm 2.3) \times 10^{-7}$	
$\Gamma_{10}$	$\Lambda(1405) K^-$	$(1.9 \pm 1.2) \times 10^{-7}$	
$\Gamma_{11}$	$\Lambda(1520) K^-$	$(7.6 \pm 3.2) \times 10^{-7}$	
$\Gamma_{12}$	$\Lambda(1670) K^-$	$(4.5 \pm 2.3) \times 10^{-7}$	
$\Gamma_{13}$	$\Sigma(1775) K^-$	$(2.2 \pm 1.5) \times 10^{-7}$	
$\Gamma_{14}$	$\Sigma(1915) K^-$	$(2.6 \pm 2.5) \times 10^{-7}$	
$\Gamma_{15}$	$\Xi^- \gamma$	$< 1.3 \times 10^{-4}$	95%

## $\Xi_b^-$ BRANCHING RATIOS

$\Gamma(J/\psi \Xi^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}$	$\Gamma_1 / \Gamma$
VALUE (units $10^{-4}$ )	DOCUMENT ID TECN COMMENT

**$0.102^{+0.026}_{-0.021}$  OUR AVERAGE**

$0.098^{+0.023}_{-0.016} \pm 0.014$	<sup>1</sup> AALTONEN 09AP CDF $p\bar{p}$ at 1.96 TeV
$0.16 \pm 0.07 \pm 0.02$	<sup>2</sup> ABAZOV 07K D0 $p\bar{p}$ at 1.96 TeV

<sup>1</sup> AALTONEN 09AP reports  $[\Gamma(\Xi_b^- \rightarrow J/\psi \Xi^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}] / [B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0))] = 0.167^{+0.037}_{-0.025} \pm 0.012$  which we multiply by our best value  $B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0)) = (5.8 \pm 0.8) \times 10^{-5}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

<sup>2</sup> ABAZOV 07K reports  $[\Gamma(\Xi_b^- \rightarrow J/\psi \Xi^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}] / [B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0))] = 0.28 \pm 0.09^{+0.09}_{-0.08}$  which we multiply by our best value  $B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0)) = (5.8 \pm 0.8) \times 10^{-5}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(J/\psi \Lambda K^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}$	$\Gamma_2 / \Gamma$
VALUE (units $10^{-6}$ )	DOCUMENT ID TECN COMMENT

**$2.45 \pm 0.19 \pm 0.35$**  <sup>1,2</sup> AAIJ 17BE LHCB  $pp$  at 7 and 8 TeV

<sup>1</sup> AAIJ 17BE reports  $[\Gamma(\Xi_b^- \rightarrow J/\psi \Lambda K^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}] / [B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0))] = (4.19 \pm 0.29 \pm 0.15) \times 10^{-2}$  which we multiply by our best value  $B(\Lambda_b^0 \rightarrow J/\psi(1S)\Lambda \times B(b \rightarrow \Lambda_b^0)) = (5.8 \pm 0.8) \times 10^{-5}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

<sup>2</sup> Integrated over the  $b$ -baryon transverse momentum  $p_T < 25$  GeV and rapidity  $2.0 < y < 4.5$ .

$\Gamma(p K^- K^- \times B(b \rightarrow \Xi_b^-)) / \Gamma_{\text{total}}$	$\Gamma_3 / \Gamma$
VALUE (units $10^{-8}$ )	DOCUMENT ID TECN COMMENT

**$3.7 \pm 0.8 \pm 0.2$**  <sup>1</sup> AAIJ 17F LHCB  $pp$  at 7, 8 TeV

<sup>1</sup> AAIJ 17F reports  $[\Gamma(\Xi_b^- \rightarrow p K^- K^- \times B(\bar{b} \rightarrow \Xi_b)) / \Gamma_{\text{total}}] / [B(B^+ \rightarrow K^+ K^- K^+) / [B(\bar{b} \rightarrow B^+)]] = (2.65 \pm 0.35 \pm 0.47) \times 10^{-3}$  which we multiply by our best values  $B(B^+ \rightarrow K^+ K^- K^+) = (3.40 \pm 0.14) \times 10^{-5}$ ,  $B(\bar{b} \rightarrow B^+) =$

$(40.8 \pm 0.7) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best values.

### $\Gamma(\rho K^- K^-)/\Gamma_{\text{total}}$ $\Gamma_4/\Gamma$

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
<b>2.3±0.9</b>	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

<sup>1</sup> Obtained using the ratio of fragmentation and branching fractions relative to the  $B^- \rightarrow K^+ K^- K^-$  decay.

### $\Gamma(\rho\pi^-\pi^-)/\Gamma(\rho K^- K^-)$ $\Gamma_5/\Gamma_4$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;0.56</b>	90	<sup>1</sup> AAIJ	17F LHCB	$pp$ at 7, 8 TeV

<sup>1</sup> Measures the ratio as  $0.28 \pm 0.16 \pm 0.13$ .

### $\Gamma(\rho K^- \pi^-)/\Gamma(\rho K^- K^-)$ $\Gamma_6/\Gamma_4$

VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.98±0.27±0.09</b>	AAIJ	17F LHCB	$pp$ at 7, 8 TeV

### $\Gamma(\Lambda_b^0 \pi^- \times B(b \rightarrow \Xi_b^-))/B(b \rightarrow \Lambda_b^0)/\Gamma_{\text{total}}$ $\Gamma_7/\Gamma$

VALUE (units $10^{-4}$ )	DOCUMENT ID	TECN	COMMENT
<b>7.0±0.9 OUR AVERAGE</b>			
7.3±0.8±0.6	<sup>1</sup> AAIJ	23AV LHCB	$pp$ at 13 TeV
5.7±1.8 <sup>+0.8</sup> <sub>-0.9</sub>	<sup>2</sup> AAIJ	15BA LHCB	$pp$ at 7, 8 TeV

<sup>1</sup> Measured in the decay chain of  $\Xi_b^- \rightarrow \Lambda_b^0 \pi^-$ ,  $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$  and  $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^- \pi^+ \pi^-$ , with  $\Lambda_c^+ \rightarrow p K^- \pi^+$ .

<sup>2</sup> A signal is reported with a significance of 3.2 standard deviations in the decay chain of  $\Xi_b^- \rightarrow \Lambda_b^0 \pi^-$ ,  $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ , and  $\Lambda_c^+ \rightarrow p K^- \pi^+$ .

### $\Gamma(\Xi_c^0 \pi^-)/\Gamma_{\text{total}}$ $\Gamma_8/\Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	AAIJ	16O LHCB	$pp$ at 7, 8 TeV

### $\Gamma(\Sigma(1385) K^-)/\Gamma_{\text{total}}$ $\Gamma_9/\Gamma$

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
<b>0.26±0.11±0.20</b>	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow p K^-$ .

### $\Gamma(\Lambda(1405) K^-)/\Gamma_{\text{total}}$ $\Gamma_{10}/\Gamma$

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
<b>0.19±0.06±0.10</b>	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow p K^-$ .

$\Gamma(\Lambda(1520)K^-)/\Gamma_{\text{total}}$   $\Gamma_{11}/\Gamma$ 

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
$0.76 \pm 0.09 \pm 0.31$	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow pK^-$ .

 $\Gamma(\Lambda(1670)K^-)/\Gamma_{\text{total}}$   $\Gamma_{12}/\Gamma$ 

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
$0.45 \pm 0.07 \pm 0.22$	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow pK^-$ .

 $\Gamma(\Sigma(1775)K^-)/\Gamma_{\text{total}}$   $\Gamma_{13}/\Gamma$ 

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
$0.22 \pm 0.08 \pm 0.13$	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow pK^-$ .

 $\Gamma(\Sigma(1915)K^-)/\Gamma_{\text{total}}$   $\Gamma_{14}/\Gamma$ 

VALUE (units $10^{-6}$ )	DOCUMENT ID	TECN	COMMENT
$0.26 \pm 0.09 \pm 0.23$	<sup>1</sup> AAIJ	21AH LHCB	$pp$ at 7, 8 and 13 TeV

<sup>1</sup> Obtained from an amplitude analysis of quasi-two-body contributions to the  $\Xi_b^- \rightarrow RK^-$  decay, with  $R \rightarrow pK^-$ .

 $\Gamma(\Xi_b^- \gamma)/\Gamma_{\text{total}}$   $\Gamma_{15}/\Gamma$ 

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$< 1.3 \times 10^{-4}$	95	<sup>1</sup> AAIJ	22F LHCB	$pp$ at 13 TeV

<sup>1</sup> Used  $\Xi_b^- \rightarrow \Xi^- J/\psi$  as normalization and an integrated luminosity of  $5.4 \text{ fb}^{-1}$ .

**P VIOLATION ASYMMETRY** **$A_P(\Xi_b), \Xi_b^- - \Xi_b^+$  production asymmetry**

$$A_P(\Xi_b) = [\sigma(\Xi_b^-) - \sigma(\Xi_b^+)] / [\sigma(\Xi_b^-) + \sigma(\Xi_b^+)]$$

VALUE (units $10^{-2}$ )	DOCUMENT ID	TECN	COMMENT
<b><math>-2 \pm 4</math> OUR AVERAGE</b>			
$1.1 \pm 5.6 \pm 1.9$	<sup>1,2</sup> AAIJ	19AB LHCB	$pp$ at 7 and 8 TeV
$-3.9 \pm 4.9 \pm 2.5$	<sup>1,2</sup> AAIJ	19AB LHCB	$pp$ at 13 TeV

<sup>1</sup> Baryon kinematic range  $p_T < 20 \text{ GeV}/c$  and  $2 < \eta < 6$ .

<sup>2</sup> Measured using previous measurements of  $A_P(\Lambda_b)$  in AAIJ 17BF.

**CP VIOLATION in  $\Xi_b$  decays**

$$A_{CP}(\Xi_b) = [B(\Xi_b^- \rightarrow f) - B(\Xi_b^+ \rightarrow \bar{f})] / \text{Sum}$$

 **$A_{CP}(\Xi_b^- \rightarrow \Sigma(1385)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(-27 \pm 34 \pm 73) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$A_{CP}(\Xi_b^- \rightarrow \Lambda(1405)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(-1 \pm 24 \pm 32) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$A_{CP}(\Xi_b^- \rightarrow \Lambda(1520)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(-5 \pm 9 \pm 8) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$A_{CP}(\Xi_b^- \rightarrow \Lambda(1670)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(3 \pm 14 \pm 10) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$A_{CP}(\Xi_b^- \rightarrow \Sigma(1775)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(-47 \pm 26 \pm 14) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$A_{CP}(\Xi_b^- \rightarrow \Sigma(1915)K^-)$** 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$(11 \pm 26 \pm 22) \times 10^{-2}$	AAIJ	21AH LHCB	$pp$ at 7, 8, 13 TeV

 **$\Xi_b^-$  REFERENCES**

AAIJ	23AV PR D108 072002	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	22F JHEP 2201 069	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	21 PR D103 012004	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	21AH PR D104 052010	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	19AB PR D99 052006	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	17BE PL B772 265	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	17BF PL B774 139	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	17F PRL 118 071801	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	16O PR D93 092007	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	15BA PRL 115 241801	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	14AA PRL 112 202001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	14BJ PRL 113 242002	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	14T PL B736 154	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	14U PL B734 122	R. Aaij <i>et al.</i>	(LHCb 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.)
AAIJ	13AV PRL 110 182001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AALTONEN	11X PRL 107 102001	T. Aaltonen <i>et al.</i>	(CDF Collab.)
AALTONEN	09AP PR D80 072003	T. Aaltonen <i>et al.</i>	(CDF Collab.)
AALTONEN	07A PRL 99 052002	T. Aaltonen <i>et al.</i>	(CDF Collab.)
ABAZOV	07K PRL 99 052001	V.M. Abazov <i>et al.</i>	(D0 Collab.)