

Reference = GARMASH 16; PRL 116 212001
 Verifier code = BELLE

Normally we send all verifications for one experiment to one person, usually the spokesperson or data-analysis coordinator, who then distributes them to the appropriate people. Please tell us if we should send the verifications for your experiment to someone else.

PLEASE READ NOW

***PLEASE
REPLY
WITHIN
ONE WEEK***

Karim Trabelsi

EMAIL: karim.trabelsi@kek.jp

March 20, 2017

Dear Colleague,

- (1) Please check the results of your experiment carefully. They are marked.
- (2) Please reply within one week.
- (3) Please reply even if everything is correct.
- (4) IMPORTANT!! Please tell WHICH papers you are verifying. We have lots of requests out.
- (5) Feel free to make comments on our treatment of any of the results (not just yours) you see.

Thank you for helping us make the Review accurate and useful.

Sincerely,

Simon Eidelman
 BINP, Budker Inst. of Nuclear Physics
 Prospekt Lavrent'eva 11
 RU-630090 Novosibirsk
 Russian Federation

EMAIL: simon.eidelman@cern.ch

$b\bar{b}$ MESONS

$X(10610)^{\pm}$

$I^G(J^P) = 1^+(1^+)$

Observed by BONDAR 12 in $\Upsilon(5S)$ decays to $\Upsilon(nS)\pi^+\pi^-$ ($n = 1, 2, 3$) and $h_b(mP)\pi^+\pi^-$ ($m = 1, 2$). $J^P = 1^+$ is favored from angular analyses. Isospin = 1 is favored due to observation by KROKOVNY 13 of a corresponding neutral state produced in $\Upsilon(10860) \rightarrow \Upsilon(2S)/\Upsilon(3S)\pi^0\pi^0$ decays at a consistent mass.

$X(10610)^{\pm}$ BRANCHING RATIOS

$\Gamma(\Upsilon(1S)\pi^+)/\Gamma_{\text{total}}$

VALUE (units 10^{-3})

5.4^{+1.6}_{-1.3}^{+1.1}_{-0.8}

YOUR DATA

DOCUMENT ID

TECN

COMMENT

Γ_1/Γ

7 GARMASH 16 BELL $e^+e^- \rightarrow \pi^-\pi^+B^+\bar{B}^{*0}, \pi^-\bar{B}^0B^{*+}$

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

seen

GARMASH 15 BELL $e^+e^- \rightarrow \Upsilon(1S)\pi^+\pi^-$

seen

BONDAR 12 BELL $e^+e^- \rightarrow \Upsilon(1S)\pi^+\pi^-$

YOUR NOTE

⁷ Assuming the $X(10610)^{\pm}$ decay width is saturated by the channels $\pi^+\Upsilon(1S, 2S, 3S), \pi^+h_b(1P, 2P)$, and $B^+\bar{B}^{*0} + \bar{B}^0B^{*+}$, and using the results from BONDAR 12 and MIZUK 16.

NODE=MXXX030

NODE=M207

NODE=M207

NODE=M207225

NODE=M207R01

NODE=M207R01

$\Gamma(\Upsilon(2S)\pi^+)/\Gamma_{\text{total}}$

VALUE (units 10^{-2})

3.62^{+0.76}_{-0.59}^{+0.79}_{-0.53}

YOUR DATA

DOCUMENT ID

TECN

COMMENT

Γ_2/Γ

8 GARMASH 16 BELL $e^+e^- \rightarrow \pi^-\pi^+B^+\bar{B}^{*0}, \pi^-\bar{B}^0B^{*+}$

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

seen

GARMASH 15 BELL $e^+e^- \rightarrow \Upsilon(2S)\pi^+\pi^-$

seen

BONDAR 12 BELL $e^+e^- \rightarrow \Upsilon(2S)\pi^+\pi^-$

YOUR NOTE

⁸ Assuming the $X(10610)^{\pm}$ decay width is saturated by the channels $\pi^+\Upsilon(1S, 2S, 3S), \pi^+h_b(1P, 2P)$, and $B^+\bar{B}^{*0} + \bar{B}^0B^{*+}$, and using the results from BONDAR 12 and MIZUK 16.

NODE=M207R02

NODE=M207R02

$\Gamma(\Upsilon(3S)\pi^+)/\Gamma_{\text{total}}$

VALUE (units 10^{-2})

2.15^{+0.55}_{-0.42}^{+0.60}_{-0.43}

YOUR DATA

DOCUMENT ID

TECN

COMMENT

Γ_3/Γ

9 GARMASH 16 BELL $e^+e^- \rightarrow \pi^-\pi^+B^+\bar{B}^{*0}, \pi^-\bar{B}^0B^{*+}$

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

seen

GARMASH 15 BELL $e^+e^- \rightarrow \Upsilon(3S)\pi^+\pi^-$

seen

BONDAR 12 BELL $e^+e^- \rightarrow \Upsilon(3S)\pi^+\pi^-$

NODE=M207R03

NODE=M207R03

$\Gamma(h_b(1P)\pi^+)/\Gamma_{\text{total}}$

VALUE (units 10^{-2})

3.45^{+0.87}_{-0.71}^{+0.86}_{-0.63}

YOUR DATA

DOCUMENT ID

TECN

COMMENT

Γ_4/Γ

10 GARMASH 16 BELL $e^+e^- \rightarrow \pi^-\pi^+B^+\bar{B}^{*0}, \pi^-\bar{B}^0B^{*+}$

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

possibly seen

11 MIZUK 16 BELL $e^+e^- \rightarrow h_b(1P)\pi^+\pi^-$

seen

12 BONDAR 12 BELL $e^+e^- \rightarrow h_b(1P)\pi^+\pi^-$

NODE=M207R04

NODE=M207R04

¹⁰ Assuming the $X(10610)^{\pm}$ decay width is saturated by the channels $\pi^+\Upsilon(1S, 2S, 3S), \pi^+h_b(1P, 2P)$, and $B^+\bar{B}^{*0} + \bar{B}^0B^{*+}$, and using the results from BONDAR 12 and MIZUK 16.

¹¹ Using e^+e^- energies near the $\Upsilon(11020)$.

¹² Using e^+e^- energies near the $\Upsilon(10860)$.

NODE=M207R04;LINKAGE=C

NODE=M207R04;LINKAGE=A

NODE=M207R04;LINKAGE=B

$\Gamma(h_b(2P)\pi^+)/\Gamma_{\text{total}}$ VALUE (units 10^{-2})**4.67 $^{+1.24}_{-1.00}$ $^{+1.18}_{-0.89}$**

DOCUMENT ID

13 GARMASH

TECN

16 BELL

COMMENT

 Γ_5/Γ

NODE=M207R05

NODE=M207R05

YOUR DATA

 $e^+ e^- \rightarrow \pi^- B^+ \bar{B}^{*0}, \pi^- \bar{B}^0 B^{*+}$

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

possibly seen

14 MIZUK 16 BELL $e^+ e^- \rightarrow h_b(2P)\pi^+ \pi^-$

seen

15 BONDAR 12 BELL $e^+ e^- \rightarrow h_b(2P)\pi^+ \pi^-$

YOUR NOTE

13 Assuming the $X(10610)^\pm$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^+ \bar{B}^{*0} + \bar{B}^0 B^{*+}$, and using the results from BONDAR 12 and MIZUK 16.14 Using $e^+ e^-$ energies near the $\gamma(11020)$.15 Using $e^+ e^-$ energies near the $\gamma(10860)$.

NODE=M207R05;LINKAGE=C

NODE=M207R05;LINKAGE=A

NODE=M207R05;LINKAGE=B

 $\Gamma(B^+ \bar{B}^0)/\Gamma_{\text{total}}$

VALUE

not seen

DOCUMENT ID

GARMASH

TECN

16 BELL

COMMENT

 Γ_6/Γ

NODE=M207R08

NODE=M207R08

 $[\Gamma(B^+ \bar{B}^{*0}) + \Gamma(B^{*+} \bar{B}^0)]/\Gamma_{\text{total}}$ VALUE (units 10^{-2})**85.6 $^{+1.5}_{-2.0}$ $^{+1.5}_{-2.1}$**

EVTS

357

DOCUMENT ID

16 GARMASH

TECN

16 BELL

COMMENT

 Γ_7/Γ

NODE=M207R00

NODE=M207R00

16 Assuming the $X(10610)^\pm$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^+ \bar{B}^{*0} + B^{*+} \bar{B}^0$, and using the results from BONDAR 12 andMIZUK 16. Using the mass and width of the $X(10610)^\pm$ from BONDAR 12.

NODE=M207R00;LINKAGE=A

 $\Gamma(B^{*+} \bar{B}^{*0})/\Gamma_{\text{total}}$

VALUE

not seen

DOCUMENT ID

GARMASH

TECN

16 BELL

COMMENT

 Γ_8/Γ

NODE=M207R06

NODE=M207R06

 $[\Gamma(B^+ \bar{B}^{*0}) + \Gamma(B^{*+} \bar{B}^0)] / [\Gamma(\gamma(1S)\pi^+) + \Gamma(\gamma(2S)\pi^+) + \Gamma(\gamma(3S)\pi^+) + \Gamma(h_b(1P)\pi^+) + \Gamma(h_b(2P)\pi^+)]$ VALUE (units 10^{-2})**5.93 $^{+0.99}_{-0.69}$ $^{+1.01}_{-0.73}$**

EVTS

357

DOCUMENT ID

17 GARMASH

TECN

16 BELL

COMMENT

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

5.93 $^{+0.99}_{-0.69}$ $^{+1.01}_{-0.73}$ 357 17 GARMASH 16 BELL $e^+ e^- \rightarrow \pi^- B^+ \bar{B}^{*0}, \pi^- \bar{B}^0 B^{*+}$

YOUR NOTE

17 Combined with the results of BONDAR 12 and MIZUK 16. Not independent from $X(10610)^\pm$ branching fractions to $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^+ \bar{B}^{*0} + \bar{B}^0 B^{*+}$.

NODE=M207R07

NODE=M207R07

 $X(10610)^\pm$ REFERENCESYOUR PAPER GARMASH 16 PRL 116 212001
MIZUK 16 PRL 117 142001
GARMASH 15 PR D91 072003
KROKOVNY 13 PR D88 052016
BONDAR 12 PRL 108 122001A. Garmash *et al.*
R. Mizuk *et al.*
A. Garmash *et al.*
P. Krokovny *et al.*
A. Bondar *et al.*(BELLE Collab.)
(BELLE Collab.)
(BELLE Collab.)
(BELLE Collab.)
(BELLE Collab.)

NODE=M207

REFID=57446

REFID=57465

REFID=56811

REFID=55588

REFID=53963

NODE=M208

 $X(10650)^\pm$ $I^G(J^P) = ?^+(1^+)$

OMITTED FROM SUMMARY TABLE

Observed by BONDAR 12 in $\gamma(5S)$ decays to $\gamma(nS)\pi^+ \pi^-$ ($n = 1, 2, 3$) and $h_b(mP)\pi^+ \pi^-$ ($m = 1, 2$). $J^P = 1^+$ is favored from angular analyses.

NODE=M208

 $X(10650)^\pm$ BRANCHING RATIOS $\Gamma(\gamma(1S)\pi^+)/\Gamma_{\text{total}}$ VALUE (units 10^{-3})**1.7 $^{+0.7}_{-0.6}$ $^{+0.3}_{-0.2}$**

DOCUMENT ID

7 GARMASH

TECN

16 BELL

 Γ_1/Γ

NODE=M208225

NODE=M208R01

NODE=M208R01

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

seen

GARMASH 15 BELL $e^+ e^- \rightarrow \gamma(1S)\pi^+ \pi^-$

seen

BONDAR 12 BELL $e^+ e^- \rightarrow \gamma(1S)\pi^+ \pi^-$

YOUR NOTE	⁷ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R01;LINKAGE=A										
YOUR DATA	<p>$\Gamma(\gamma(2S)\pi^+)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE (units 10^{-2})</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>$1.39^{+0.48+0.34}_{-0.38-0.23}$</td> <td>⁸ GARMASH 16</td> <td>e⁺ e⁻ → $\pi^- B^* + \bar{B}^* 0$</td> <td></td> </tr> </tbody> </table> <p>• • • We do not use the following data for averages, fits, limits, etc. • • •</p> <p>seen GARMASH 15 BELL e⁺ e⁻ → $\gamma(2S)\pi^+ \pi^-$</p> <p>seen BONDAR 12 BELL e⁺ e⁻ → $\gamma(2S)\pi^+ \pi^-$</p>	VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT	$1.39^{+0.48+0.34}_{-0.38-0.23}$	⁸ GARMASH 16	e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$		NODE=M208R02 NODE=M208R02		
VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT									
$1.39^{+0.48+0.34}_{-0.38-0.23}$	⁸ GARMASH 16	e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$										
YOUR NOTE	⁸ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R02;LINKAGE=A										
YOUR DATA	<p>$\Gamma(\gamma(3S)\pi^+)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE (units 10^{-2})</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>$1.63^{+0.53+0.39}_{-0.42-0.28}$</td> <td>⁹ GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^* + \bar{B}^* 0$</td> <td></td> </tr> </tbody> </table> <p>• • • We do not use the following data for averages, fits, limits, etc. • • •</p> <p>seen GARMASH 15 BELL e⁺ e⁻ → $\gamma(3S)\pi^+ \pi^-$</p> <p>seen BONDAR 12 BELL e⁺ e⁻ → $\gamma(3S)\pi^+ \pi^-$</p>	VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT	$1.63^{+0.53+0.39}_{-0.42-0.28}$	⁹ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$		NODE=M208R03 NODE=M208R03		
VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT									
$1.63^{+0.53+0.39}_{-0.42-0.28}$	⁹ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$										
YOUR NOTE	⁹ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R03;LINKAGE=A										
YOUR DATA	<p>$\Gamma(h_b(1P)\pi^+)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE (units 10^{-2})</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>$8.41^{+2.43+1.49}_{-2.12-1.06}$</td> <td>¹⁰ GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^* + \bar{B}^* 0$</td> <td></td> </tr> </tbody> </table> <p>• • • We do not use the following data for averages, fits, limits, etc. • • •</p> <p>seen ¹¹ MIZUK 16 BELL e⁺ e⁻ → $h_b(1P)\pi^+ \pi^-$</p> <p>seen ¹² BONDAR 12 BELL e⁺ e⁻ → $h_b(1P)\pi^+ \pi^-$</p>	VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT	$8.41^{+2.43+1.49}_{-2.12-1.06}$	¹⁰ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$		NODE=M208R04 NODE=M208R04		
VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT									
$8.41^{+2.43+1.49}_{-2.12-1.06}$	¹⁰ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$										
YOUR NOTE	¹⁰ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R04;LINKAGE=C										
	11 Using e ⁺ e ⁻ energies near the $\gamma(11020)$.	NODE=M208R04;LINKAGE=A										
	12 Using e ⁺ e ⁻ energies near the $\gamma(10860)$.	NODE=M208R04;LINKAGE=B										
YOUR DATA	<p>$\Gamma(h_b(2P)\pi^+)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE (units 10^{-2})</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>$14.7^{+3.2+2.8}_{-2.8-2.3}$</td> <td>¹³ GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^* + \bar{B}^* 0$</td> <td></td> </tr> </tbody> </table> <p>• • • We do not use the following data for averages, fits, limits, etc. • • •</p> <p>possibly seen ¹⁴ MIZUK 16 BELL e⁺ e⁻ → $h_b(2P)\pi^+ \pi^-$</p> <p>seen ¹⁵ BONDAR 12 BELL e⁺ e⁻ → $h_b(2P)\pi^+ \pi^-$</p>	VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT	$14.7^{+3.2+2.8}_{-2.8-2.3}$	¹³ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$		NODE=M208R05 NODE=M208R05		
VALUE (units 10^{-2})	DOCUMENT ID	TECN	COMMENT									
$14.7^{+3.2+2.8}_{-2.8-2.3}$	¹³ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$										
YOUR NOTE	¹³ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R05;LINKAGE=C										
	14 Using e ⁺ e ⁻ energies near the $\gamma(11020)$.	NODE=M208R05;LINKAGE=A										
	15 Using e ⁺ e ⁻ energies near the $\gamma(10860)$.	NODE=M208R05;LINKAGE=B										
YOUR DATA	<p>$\Gamma(B^+ \bar{B}^0)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>not seen</td> <td>GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^+ \bar{B}^0$</td> <td></td> </tr> </tbody> </table>	VALUE	DOCUMENT ID	TECN	COMMENT	not seen	GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^+ \bar{B}^0$		NODE=M208R08 NODE=M208R08		
VALUE	DOCUMENT ID	TECN	COMMENT									
not seen	GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^+ \bar{B}^0$										
YOUR DATA	<p>$[\Gamma(B^+ \bar{B}^0) + \Gamma(B^* + \bar{B}^*)]/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>not seen</td> <td>GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^+ \bar{B}^0$, $\pi^- \bar{B}^0 B^*$</td> <td></td> </tr> </tbody> </table>	VALUE	DOCUMENT ID	TECN	COMMENT	not seen	GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^+ \bar{B}^0$, $\pi^- \bar{B}^0 B^*$		NODE=M208R00 NODE=M208R00		
VALUE	DOCUMENT ID	TECN	COMMENT									
not seen	GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^+ \bar{B}^0$, $\pi^- \bar{B}^0 B^*$										
YOUR DATA	<p>$\Gamma(B^* + \bar{B}^*)/\Gamma_{\text{total}}$</p> <table border="1"> <thead> <tr> <th>VALUE (units 10^{-2})</th> <th>EVTS</th> <th>DOCUMENT ID</th> <th>TECN</th> <th>COMMENT</th> </tr> </thead> <tbody> <tr> <td>$73.7^{+3.4+2.7}_{-4.4-3.5}$</td> <td>161</td> <td>¹⁶ GARMASH 16</td> <td>BELL e⁺ e⁻ → $\pi^- B^* + \bar{B}^* 0$</td> <td></td> </tr> </tbody> </table>	VALUE (units 10^{-2})	EVTS	DOCUMENT ID	TECN	COMMENT	$73.7^{+3.4+2.7}_{-4.4-3.5}$	161	¹⁶ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$		NODE=M208R06 NODE=M208R06
VALUE (units 10^{-2})	EVTS	DOCUMENT ID	TECN	COMMENT								
$73.7^{+3.4+2.7}_{-4.4-3.5}$	161	¹⁶ GARMASH 16	BELL e ⁺ e ⁻ → $\pi^- B^* + \bar{B}^* 0$									
YOUR NOTE	¹⁶ Assuming the $X(10650)^{\pm}$ decay width is saturated by the channels $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^* + \bar{B}^* 0$, and using the results from BONDAR 12 and MIZUK 16.	NODE=M208R06;LINKAGE=A										
	Using the mass and width of the $X(10650)^{\pm}$ from BONDAR 12.											

$$\frac{\Gamma(B^{*+}\bar{B}^{*0})}{\Gamma(\gamma(1S)\pi^+) + \Gamma(\gamma(2S)\pi^+) + \Gamma(\gamma(3S)\pi^+) + \Gamma(h_b(1P)\pi^+) + \Gamma(h_b(2P)\pi^+)} = \frac{\Gamma_8}{\Gamma_1 + \Gamma_2 + \Gamma_3 + \Gamma_4 + \Gamma_5}$$

VALUE (units 10^{-2}) EVTS DOCUMENT ID TECN COMMENT

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

YOUR DATA $2.80^{+0.69+0.54}_{-0.40-0.36}$ 161 17 GARMASH 16 BELL $e^+e^- \rightarrow \pi^- B^*+\bar{B}^{*0}$

YOUR NOTE ¹⁷ Combined with the results of BONDAR 12 and MIZUK 16. Not independent from $X(10650)^{\pm}$ branching fractions to $\pi^+ \gamma(1S, 2S, 3S)$, $\pi^+ h_b(1P, 2P)$, and $B^*+\bar{B}^{*0}$.

NODE=M208R07
NODE=M208R07

$X(10650)^{\pm}$ REFERENCES

YOUR PAPER	GARMASH	16	PRL 116 212001	A. Garmash <i>et al.</i>	(BELLE Collab.)	REFID=57446
	MIZUK	16	PRL 117 142001	R. Mizuk <i>et al.</i>	(BELLE Collab.)	REFID=57465
	GARMASH	15	PR D91 072003	A. Garmash <i>et al.</i>	(BELLE Collab.)	REFID=56811
	BONDAR	12	PRL 108 122001	A. Bondar <i>et al.</i>	(BELLE Collab.)	REFID=53963

NODE=M208R07;LINKAGE=A

NODE=M208