

# $\Upsilon(11020)$

$$J^{PC} = 0^{-}(1^{-}-)$$

## $\Upsilon(11020)$ MASS

<u>VALUE (GeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>11.019±0.008 OUR AVERAGE</b>			
11.019±0.005±0.007	BESSION	85	CLEO $e^+e^- \rightarrow$ hadrons
11.020±0.030	LOVELOCK	85	CUSB $e^+e^- \rightarrow$ hadrons
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
10.996±0.002	<sup>1</sup> AUBERT	09E	BABR $e^+e^- \rightarrow$ hadrons
<sup>1</sup> In a model where a flat non-resonant $b\bar{b}$ -continuum is incoherently added to a second flat component interfering with two Breit-Wigner resonances. Systematic uncertainties not estimated.			

## $\Upsilon(11020)$ WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>79±16 OUR AVERAGE</b>			
61±13±22	BESSION	85	CLEO $e^+e^- \rightarrow$ hadrons
90±20	LOVELOCK	85	CUSB $e^+e^- \rightarrow$ hadrons
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
37± 3	<sup>2</sup> AUBERT	09E	BABR $e^+e^- \rightarrow$ hadrons
<sup>2</sup> In a model where a flat non-resonant $b\bar{b}$ -continuum is incoherently added to a second flat component interfering with two Breit-Wigner resonances. Systematic uncertainties not estimated.			

## $\Upsilon(11020)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad e^+e^-$	$(1.6 \pm 0.5) \times 10^{-6}$

## $\Upsilon(11020)$ PARTIAL WIDTHS

<u><math>\Gamma(e^+e^-)</math></u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	$\Gamma_1$
<b>0.130±0.030 OUR AVERAGE</b>				
0.095±0.03 ±0.035	BESSION	85	CLEO $e^+e^- \rightarrow$ hadrons	
0.156±0.040	LOVELOCK	85	CUSB $e^+e^- \rightarrow$ hadrons	

## $\Upsilon(11020)$ REFERENCES

AUBERT	09E	PRL 102 012001	B. Aubert <i>et al.</i>	(BABAR Collab.)
BESSION	85	PRL 54 381	D. Besson <i>et al.</i>	(CLEO Collab.)
LOVELOCK	85	PRL 54 377	D.M.J. Lovelock <i>et al.</i>	(CUSB Collab.)