

Reference = ABLIKIM 15K; PR D91 112001
 Verifier code = BES3

PLEASE READ NOW



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.

Xiao-Rui Lyu

EMAIL: xiaorui@ucas.ac.cn

July 21, 2016

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

$c\bar{c}$ MESONS

$J/\psi(1S)$

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

$J/\psi(1S)$ BRANCHING RATIOS

HADRONIC DECAYS

$\Gamma(\phi\pi^0)/\Gamma_{\text{total}}$ Γ_{77}/Γ

The two different fit values of ABLIKIM 15K below have the same statistical significance of 6.4 σ and cannot be distinguished at this moment.

	VALUE (units 10 ⁻⁶)	CL%	EPTS	DOCUMENT ID	TECN	COMMENT
YOUR DATA	2.94 ±0.16 ±0.16		0.8k	¹ ABLIKIM 15K	BES3	$e^+e^- \rightarrow J/\psi \rightarrow K^+K^-\gamma\gamma$
YOUR DATA	0.124±0.033±0.030		35 ± 9	² ABLIKIM 15K	BES3	$e^+e^- \rightarrow J/\psi \rightarrow K^+K^-\gamma\gamma$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●						
	<6.4	90		³ ABLIKIM 05B	BES2	$e^+e^- \rightarrow J/\psi \rightarrow \phi\gamma\gamma$
	<6.8	90		COFFMAN 88	MRK3	$e^+e^- \rightarrow K^+K^-\pi^0$

¹ Corresponding to one of the two fit solutions with $\delta = (-95.9 \pm 1.5)^\circ$ for the phase angle between the resonant $J/\psi \rightarrow \phi\pi^0$ and non-phi $J/\psi \rightarrow K^+K^-\pi^0$ contributions.

² Corresponding to one of the two fit solutions with $\delta = (-152.1 \pm 7.7)^\circ$ for the phase angle between the resonant $J/\psi \rightarrow \phi\pi^0$ and non-phi $J/\psi \rightarrow K^+K^-\pi^0$ contributions.

³ Superseded by ABLIKIM 15K.

$J/\psi(1S)$ REFERENCES

YOUR PAPER	ABLIKIM 15K PR D91 112001	M. Ablikim <i>et al.</i>	(BES III Collab.)
	ABLIKIM 05B PR D71 032003	M. Ablikim <i>et al.</i>	(BES Collab.)
	COFFMAN 88 PR D38 2695	D.M. Coffman <i>et al.</i>	(Mark III Collab.)

NODE=MXXX025
NODE=M070

NODE=M070230
NODE=M070305
NODE=M070R33
NODE=M070R33
NODE=M070R33

OCCUR=2

NODE=M070R33;LINKAGE=A
NODE=M070R33;LINKAGE=C
NODE=M070R33;LINKAGE=B

NODE=M070
REFID=56776
REFID=50496
REFID=40346