

Reference = ABLIKIM 14A; PRL 112 022001
Verifier code = BES3

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*

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,

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Russian Federation

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$c\bar{c}$ MESONS

NODE=MXXX025

NODE=M210

X(3900)

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

NODE=M210

Charged $X(3900)$ seen as a peak in the invariant mass distribution of the $J/\psi\pi^\pm$ system by BES III (ABLIKIM 13T) in $e^+e^- \rightarrow \pi^+\pi^- J/\psi$ at c.m. energy of 4.26 GeV and by radiative return from e^+e^- collisions at $\sqrt{s}$ from 9.46 to 10.86 GeV at Belle (LIU 13B). Angular analysis of ABLIKIM 14A and ABLIKIM 15AC favor the $J^P = 1^+$ assignment. Neutral $X(3900)$ seen in the $J/\psi\pi^0$ invariant mass distribution in $e^+e^- \rightarrow \pi^0\pi^0 J/\psi$ at c.m. energies of 4.23, 4.26, and 4.36 GeV by BES III (ABLIKIM 15U) and at 4.17 GeV by XIAO 13A. Peaks in $(D\bar{D}^*)^{0,\pm}$ reported by BES III (ABLIKIM 14A, ABLIKIM 15AB) are assumed to be related.

X(3900) BRANCHING RATIOS

NODE=M210225

$\Gamma(D^0 D^{*-} + \text{c.c.})/\Gamma_{\text{total}}$						Γ_4/Γ
VALUE	DOCUMENT ID	TECN	CHG	COMMENT		
seen	ABLIKIM	15AC	BES3	$\pm$	$e^+e^- \rightarrow \pi^+ D^0 D^{*-} + \text{c.c.}$	
YOUR DATA seen	ABLIKIM	14A	BES3	$\pm$	$e^+e^- \rightarrow \pi^+ D^0 D^{*-} + \text{c.c.}$	

NODE=M210R09
NODE=M210R09

$\Gamma(D^- D^{*0} + \text{c.c.})/\Gamma_{\text{total}}$						Γ_5/Γ
VALUE	DOCUMENT ID	TECN	CHG	COMMENT		
seen	ABLIKIM	15AC	BES3	$\pm$	$e^+e^- \rightarrow \pi^+ D^- D^{*0} + \text{c.c.}$	
YOUR DATA seen	ABLIKIM	14A	BES3	$\pm$	$e^+e^- \rightarrow \pi^+ D^- D^{*0} + \text{c.c.}$	

NODE=M210R10
NODE=M210R10

X(3900) REFERENCES

NODE=M210

ABLIKIM	15AB	PRL 115 222002	M. Ablikim <i>et al.</i>	(BES III Collab.)
ABLIKIM	15AC	PR D92 092006	M. Ablikim <i>et al.</i>	(BES III Collab.) JP
ABLIKIM	15U	PRL 115 112003	M. Ablikim <i>et al.</i>	(BES III Collab.)
ABLIKIM	14A	PRL 112 022001	M. Ablikim <i>et al.</i>	(BES III Collab.) JP
ABLIKIM	13T	PRL 110 252001	M. Ablikim <i>et al.</i>	(BES III Collab.)
LIU	13B	PRL 110 252002	Z.Q. Liu <i>et al.</i>	(BELLE Collab.)
XIAO	13A	PL B727 366	T. Xiao <i>et al.</i>	(NWES)

REFID=56954
REFID=56967
REFID=56786
REFID=55648
REFID=55409
REFID=55410
REFID=55593

YOUR PAPER