Reference = ABLIKIM 14M; PRL 112 251801
Verifier code = BES3

Normally we send all verifications for one experiment to one person, usually the spokesperson or data-analysis co-ordinator, 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,

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

EMAIL: simon.eidelman@cern.ch

LIGHT UNFLAVORED MESONS ($S = C = B = 0$)

NODE=MXXX005

For $I = 1$ (π, b, ρ, a): $u\overline{d}$, $(u\overline{u}-d\overline{d})/\sqrt{2}$, $d\overline{u}$;
for $I = 0$ (η, η', h, h', ω, ϕ, f, f'): $c_1(u\overline{u} + d\overline{d}) + c_2(s\overline{s})$

NODE=MXXX005

$\eta'(958)$

NODE=M002

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

$\eta'(958)$ BRANCHING RATIOS

NODE=M002230

$\Gamma(2(\pi^+\pi^-))/\Gamma_{total}$ Γ_{12}/Γ

NODE=M002R24
NODE=M002R24

	VALUE (units 10^{-5})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
YOUR DATA	**8.5±0.9±0.3**		199	[1] ABLIKIM	14M	BES3	$J/\psi \to \gamma\eta'$
• • • We do not use the following data for averages, fits, limits, etc. • • •							
	< 24	90		[2] NAIK	09	CLEO	$J/\psi \to \gamma\eta'$
	<1000	90		RITTENBERG	69	HBC	1.7–2.7 $K^- p$

YOUR NOTE

[1] ABLIKIM 14M reports $[\Gamma(\eta'(958) \to 2(\pi^+\pi^-))/\Gamma_{total}] \times [B(J/\psi(1S) \to \gamma\eta'(958))] = (4.40 \pm 0.35 \pm 0.30) \times 10^{-7}$ which we divide by our best value $B(J/\psi(1S) \to \gamma\eta'(958)) = (5.15 \pm 0.16) \times 10^{-3}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

NODE=M002R24;LINKAGE=A

[2] Not independent of measured value of Γ_{12}/Γ_1 from NAIK 09.

NODE=M002R24;LINKAGE=NA

$\Gamma(\pi^+\pi^-2\pi^0)/\Gamma_{total}$ Γ_{13}/Γ

NODE=M002R51
NODE=M002R51

	VALUE (units 10^{-4})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
YOUR DATA	**1.8±0.4±0.1**		84	[1] ABLIKIM	14M	BES3	$J/\psi \to \gamma\eta'$
• • • We do not use the following data for averages, fits, limits, etc. • • •							
	<27	90		[2] NAIK	09	CLEO	$J/\psi \to \gamma\eta'$

YOUR NOTE

[1] ABLIKIM 14M reports $[\Gamma(\eta'(958) \to \pi^+\pi^-2\pi^0)/\Gamma_{total}] \times [B(J/\psi(1S) \to \gamma\eta'(958))] = (9.38\pm1.79\pm0.89)\times10^{-7}$ which we divide by our best value $B(J/\psi(1S) \to \gamma\eta'(958)) = (5.15 \pm 0.16) \times 10^{-3}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

NODE=M002R51;LINKAGE=A

[2] Not independent of measured value of Γ_{13}/Γ_1 from NAIK 09.

NODE=M002R51;LINKAGE=NA

$\eta'(958)$ REFERENCES

NODE=M002

YOUR PAPER

ABLIKIM	14M	PRL 112 251801	M. Ablikim *et al.*	(BES III Collab.)	REFID=55904
NAIK	09	PRL 102 061801	P. Naik *et al.*	(CLEO Collab.)	REFID=52678
RITTENBERG	69	Thesis UCRL 18863	A. Rittenberg	(LRL) I	REFID=20266