

Reference = ABLIKIM 150; PR D92 012001
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

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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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LIGHT UNFLAVORED MESONS

($S = C = B = 0$)

For $l = 1$ (π, b, ρ, a): $u\bar{d}, (u\bar{u}-d\bar{d})/\sqrt{2}, d\bar{u}$;
for $l = 0$ ($\eta, \eta', h, h', \omega, \phi, f, f'$): $c_1(u\bar{u} + d\bar{d}) + c_2(s\bar{s})$

$\eta'(958)$

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

NODE=MXXX005

NODE=MXXX005

NODE=M002

$\eta'(958)$ BRANCHING RATIOS

NODE=M002230

 $\Gamma(\gamma e^+ e^-)/\Gamma(\gamma\gamma)$
 Γ_{20}/Γ_6
NODE=M002R00
NODE=M002R00

	<u>VALUE (units 10^{-2})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
YOUR DATA	$2.13 \pm 0.09 \pm 0.07$	864	ABLIKIM	150 BES3	$J/\psi \rightarrow \gamma e^+ e^-$

$\eta'(958) \rightarrow \gamma \ell^+ \ell^-$ TRANSITION FORM FACTOR SLOPE

Related to the effective virtual meson mass Λ , via slope $\approx \Lambda^{-2}$. See e.g. LANDSBERG 85, eq. (3.8), for a detailed definition.

NODE=M002FFL

NODE=M002FFL

	<u>VALUE (GeV^{-2})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
	1.62 ± 0.17 OUR AVERAGE				

NODE=M002FFL

YOUR DATA	$1.60 \pm 0.17 \pm 0.08$	864	¹ ABLIKIM	150 BES3	$J/\psi \rightarrow \gamma e^+ e^-$
	1.7 ± 0.4	33	¹ VIKTOROV	80	$25,33 \pi^- p \rightarrow 2\mu\gamma$

YOUR NOTE ¹In the single-pole Ansatz where slope = $1/(\Lambda^2 + \gamma^2)$ with Λ, γ being a Breit-Wigner mass, width for the effective contributing vector meson.

NODE=M002FFL;LINKAGE=A

$\eta'(958)$ REFERENCES

NODE=M002

YOUR PAPER	ABLIKIM	150	PR D92 012001	M. Ablikim <i>et al.</i>	(BES III Collab.)	REFID=56780	
	LANDSBERG	85	PRPL 128 301	L.G. Landsberg	(SERP)	REFID=10844	
	VIKTOROV	80	SJNP 32 520	V.A. Viktorov <i>et al.</i>	(SERP)	REFID=20298	
			Translated from YAF 32 1005.				