

Reference = HAYASAKA 05; PL B613 20
 Verifier code = BELLE

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.

PLEASE
 REPLY
 WITHIN
 ONE WEEK

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June 17, 2005

Dear Colleague,

The attached sheets from the "Review of Particle Physics" Particle Listings contain information from your experiment that was recently added to our database. There may be other papers that we have not yet added; please inform us of any such journal papers if they have been accepted for publication. You are the *only* author of this paper to whom this request is being sent, so please forward this to another author if appropriate.

We ask you to check the information marked "YOUR DATA" and "YOUR PAPER," note any necessary changes, and return the corrected sheets to us. In particular:

- (1) Return the sheets to us *even if no change is needed*, marking them in that case "OK."
- (2) Please feel free to comment on our treatment of other data listed on these sheets. We appreciate suggestions for improvements.
- (3) You may respond by electronic mail, but then be sure to include the "Reference" above and the **NAME** of the particle, the **PROPERTY**, and the **PROPERTY NODE** on which you are commenting. (The "**PROPERTY NODE**" is the code given on the right-hand side of the data, e.g., "NODE=S043M.")

Thank you for helping us make the Review accurate and useful.

Sincerely,

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$$J = \frac{1}{2}$$

τ discovery paper was PERL 75. $e^+e^- \rightarrow \tau^+\tau^-$ cross-section threshold behavior and magnitude are consistent with pointlike spin-1/2 Dirac particle. BRANDELIK 78 ruled out pointlike spin-0 or spin-1 particle. FELDMAN 78 ruled out $J = 3/2$. KIRKBY 79 also ruled out $J=\text{integer}$, $J = 3/2$.

NODE=S035

NODE=S035

τ^- BRANCHING RATIOS

NODE=S035220

NODE=S035220

 $\Gamma(e^-\gamma)/\Gamma_{\text{total}}$
 Γ_{141}/Γ

Test of lepton family number conservation.

NODE=S035R54

NODE=S035R54

NODE=S035R54

YOUR DATA	VALUE	CL%	DOCUMENT ID	TECN	COMMENT
	$<3.9 \times 10^{-7}$	90	HAYASAKA	05	BELL 86.7 fb ⁻¹ , $E_{\text{cm}}^{ee}=10.6$ GeV

• • • We do not use the following data for averages, fits, limits, etc. • • •

$<2.7 \times 10^{-6}$	90	EDWARDS	97	CLEO	
$<1.1 \times 10^{-4}$	90	ABREU	95U	DLPH	1990-1993 LEP runs
$<1.2 \times 10^{-4}$	90	ALBRECHT	92K	ARG	$E_{\text{cm}}^{ee} = 10$ GeV
$<2.0 \times 10^{-4}$	90	KEH	88	CBAL	$E_{\text{cm}}^{ee} = 10$ GeV
$<6.4 \times 10^{-4}$	90	HAYES	82	MRK2	$E_{\text{cm}}^{ee} = 3.8-6.8$ GeV

τ REFERENCES

NODE=S035

YOUR PAPER	HAYASAKA	05	PL B613 20	K. Hayasaka <i>et al.</i>	(BELLE Collab.)	REFID=50547
	EDWARDS	97	PR D55 R3919	K.W. Edwards <i>et al.</i>	(CLEO Collab.)	REFID=45217
	ABREU	95U	PL B359 411	P. Abreu <i>et al.</i>	(DELPHI Collab.)	REFID=44477
	ALBRECHT	92K	ZPHY C55 179	H. Albrecht <i>et al.</i>	(ARGUS Collab.)	REFID=42198
	KEH	88	PL B212 123	S. Keh <i>et al.</i>	(Crystal Ball Collab.)	REFID=40655
	HAYES	82	PR D25 2869	K.G. Hayes <i>et al.</i>	(Mark II Collab.)	REFID=10330
	KIRKBY	79	SLAC-PUB-2419	J. Kirkby	(SLAC) J	REFID=10283
	Batavia Lepton Photon Conference.					
	BRANDELIK	78	PL 73B 109	R. Brandelik <i>et al.</i>	(DASP Collab.) J	REFID=10280
	FELDMAN	78	Tokyo Conf. 777	G.J. Feldman	(SLAC) J	REFID=10355
	PERL	75	PRL 35 1489	M.L. Perl <i>et al.</i>	(LBL, SLAC)	REFID=10294