Reference = ABLIKIM 15B; PR D91 031101
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

CHARMED MESONS
($C = \pm 1$)

NODE=MXXX035

$D^+ = c\overline{d}$, $D^0 = c\overline{u}$, $\overline{D}^0 = \overline{c}\,u$, $D^- = \overline{c}\,d$, similarly for D^*'s

NODE=MXXX035

NODE=M061

$D^*(2007)^0$

$I(J^P) = \frac{1}{2}(1^-)$
I, J, P need confirmation.

J consistent with 1, value 0 ruled out (NGUYEN 77).

NODE=M061

$D^*(2007)^0$ BRANCHING RATIOS

NODE=M061225

$\Gamma(D^0\pi^0)/\Gamma(D^0\gamma)$ Γ_1/Γ_2

NODE=M061R3
NODE=M061R3

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
1.85±0.07 OUR AVERAGE					
YOUR DATA 1.90±0.07±0.05	4.9k	ABLIKIM	15B	BES3	10.6 e^+e^- → hadrons
1.74±0.02±0.13		AUBERT,BE	05G	BABR	10.6 e^+e^- → hadrons

$\Gamma(D^0\pi^0)/\Gamma_{total}$ Γ_1/Γ

NODE=M061R2
NODE=M061R2

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
YOUR DATA 0.655±0.008±0.005	3.2k	[5] ABLIKIM	15B	BES3	e^+e^- → hadrons
0.635±0.003±0.017	69k	[5] AUBERT,BE	05G	BABR	10.6 e^+e^- → hadrons
0.596±0.035±0.028	858	[6] ALBRECHT	95F	ARG	e^+e^- → hadrons
0.636±0.023±0.033	1097	[6] BUTLER	92	CLE2	e^+e^- → hadrons

$\Gamma(D^0\gamma)/\Gamma_{total}$ Γ_2/Γ

NODE=M061R1
NODE=M061R1

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.381±0.029 OUR AVERAGE					
0.404±0.035±0.028	456	[6] ALBRECHT	95F	ARG	e^+e^- → hadrons
0.364±0.023±0.033	621	[6] BUTLER	92	CLE2	e^+e^- → hadrons
0.37 ±0.08 ±0.08		ADLER	88D	MRK3	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •					
YOUR DATA 0.345±0.008±0.005	1.8k	[5] ABLIKIM	15B	BES3	e^+e^- → hadrons
0.365±0.003±0.017	68k	[5] AUBERT,BE	05G	BABR	10.6 e^+e^- → hadrons
0.47 ±0.23		LOW	87	HRS	29 GeV e^+e^-
0.53 ±0.13		BARTEL	85G	JADE	e^+e^-, hadrons
0.47 ±0.12		COLES	82	MRK2	e^+e^-
0.45 ±0.15		GOLDHABER	77	MRK1	e^+e^-

YOUR NOTE

[5] Derived from the ratio $\Gamma(D^0\pi^0)$ / $\Gamma(D^0\gamma)$ assuming that the branching fractions of $D^{*0} \to D^0\pi^0$ and $D^{*0} \to D^0\gamma$ decays sum to 100%

NODE=M061R;LINKAGE=AU

[6] The BUTLER 92 and ALBRECHT 95F branching ratios are not independent, they have been constrained by the authors to sum to 100%.

NODE=M061R;LINKAGE=A

$D^*(2007)^0$ REFERENCES

NODE=M061

YOUR PAPER	ABLIKIM	15B	PR D91 031101	M. Ablikim *et al.*	(BES III Collab.)	REFID=56375
	AUBERT,BE	05G	PR D72 091101	B. Aubert *et al.*	(BABAR Collab.)	REFID=50942
	ALBRECHT	95F	ZPHY C66 63	H. Albrecht *et al.*	(ARGUS Collab.)	REFID=44374
	BUTLER	92	PRL 69 2041	F. Butler *et al.*	(CLEO Collab.)	REFID=43170
	ADLER	88D	PL B208 152	J. Adler *et al.*	(Mark III Collab.)	REFID=40579
	LOW	87	PL B183 232	E.H. Low *et al.*	(HRS Collab.)	REFID=40017
	BARTEL	85G	PL 161B 197	W. Bartel *et al.*	(JADE Collab.)	REFID=22880
	COLES	82	PR D26 2190	M.W. Coles *et al.*	(LBL, SLAC)	REFID=22866
	GOLDHABER	77	PL 69B 503	G. Goldhaber *et al.*	(Mark I Collab.)	REFID=11434
	NGUYEN	77	PRL 39 262	H.K. Nguyen *et al.*	(LBL, SLAC) J	REFID=11543