$Reference \hspace{1.5cm} = \hspace{.5cm} TOMARADZE \hspace{.1cm} 15; \hspace{.1cm} PR \hspace{.1cm} D91 \hspace{.1cm} 011102$

Verifier code = SETH

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

Kamal K Seth

EMAIL: kseth@northwestern.edu

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

NODE=MXXX035

CHARMED MESONS $(C = \pm 1)$

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

NODE=MXXX035

NODE=M061

 $D^*(2007)^0$

VALUE (MeV)

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

TECN COMMENT

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

NODE=M061

NODE=M061DM

NODE=M061DM

NODE=M061DM

 $m_{D^*(2007)^0} - m_{D^0}$

The fit includes D^{\pm} , D^0 , D^{\pm}_s , $D^{*\pm}$, D^{*0} , $D^{*\pm}_s$, $D_1(2420)^0$, $D_2^*(2460)^0$, and $D_{s1}(2536)^{\pm}$ mass and mass difference measurements.

DOCUMENT ID

YOUR DATA

142.016 \pm 0.030 OUR AVERAGEError includes scale factor of 1.5. $142.007\pm0.015\pm0.014$ 10K 2 TOMARADZE 15CLEO $e^+e^- \rightarrow hadrons$ 142.2 ± 0.3 ± 0.2 145ALBRECHT 95FARG $e^+e^- \rightarrow hadrons$ 142.12 ± 0.05 ± 0.05 1176BORTOLETTO92BCLE2 $e^+e^- \rightarrow hadrons$ • • We do not use the following data for averages, fits, limits, etc. • ••142.2 ± 2.0 SADROZINSKI 80CBAL $D^{*0} \rightarrow D^0 \pi^0$

 142.7 ± 1.7 YOUR NOTE 2 Obtained

 2 Obtained by analyzing CLEO-c data but not authored by the CLEO Collaboration . This value comes from the average of the results for two decay modes, $D^0\to K^-\pi^+$ and $D^0\to K^-\pi^+\pi^-\pi^+$.

 3 GOLDHABER 77 MRK1 $e^{+}e^{-}$

³ From simultaneous fit to $D^*(2010)^+$, $D^*(2007)^0$, D^+ , and D^0

EVTS

NODE=M061DM;LINKAGE=A

NODE=M061DM;LINKAGE=G

D*(2007)0 REFERENCES

YOUR PAPER TOMARADZE 15

TOMARADZE 15 PR D91 011102
ALBRECHT 95F ZPHY C66 63
BORTOLETTO 92B PRL 69 2046
SADROZINSKI 80 Madison Conf. 681
GOLDHABER 77 PL 69B 503
NGUYEN 77 PRL 39 262

A. Tomaradze et al.
H. Albrecht et al.
D. Bortoletto et al.
H.F.W. Sadrozinski et al.
G. Goldhaber et al.
H.K. Nguyen et al.

(NWES)
(ARGUS Collab.)
(CLEO Collab.)
(PRIN, CIT+)
(Mark I Collab.)
(LBL, SLAC) J

NODE=M061

REFID=57142 REFID=44374 REFID=43116 REFID=22877 REFID=11434 REFID=11543