NODE=M014

NODE=M014PP

NODE=M014PP



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

also known as σ ; was $f_0(600)$, $f_0(400-1200)$ See the related review(s): Scalar Mesons below 1 GeV

$f_0(500)$ T-MATRIX POLE \sqrt{s}

Note that $\Gamma = -2 \operatorname{Im}(\sqrt{s})$.

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT	NODE=M014PP
(400-550)-i(200-350) OUR E	STIMATE (see Fig.	64.3 i	n the re	view)	\rightarrow UNCHECKED \leftarrow
$(458 \pm 7^{+}, \frac{4}{10}) - i(245 \pm 6^{+}, \frac{7}{10})$	¹ DANILKIN	21	RVUE	Compilation	
$(410 \pm 20) - i(240 \pm 15)$	SARANTSEV	21	RVUE	$J/\psi(1S) \to \gamma \ (\pi\pi, K\overline{K} \ nn \ \omega\phi)$	
$(512 \pm 15) {-}i(188 \pm 12)$	² ABLIKIM	17	BES3	$J/\psi \rightarrow \gamma 3\pi$	
$(440 \pm 10) - i(238 \pm 10)$	³ ALBALADEJO	12	RVUE	Compilation	
$(445 \pm 25) - i(278^{+22})$	^{4,5} GARCIA-MAR		RVUE	Compilation	
$(457^{+14}_{-13}) - i(279^{+11}_{-7})$	^{4,6} GARCIA-MAR	11	RVUE	Compilation	OCCUR=2
$(442^{+5}_{-8}) - i(274^{+6}_{-5})$	⁷ MOUSSALLAN	Л11	RVUE	Compilation	
$(452 \pm 13) - i(259 \pm 16)$	⁸ MENNESSIER	10	RVUE	Compilation	
$(448 \pm 43) - i(266 \pm 43)$	⁹ MENNESSIER	10	RVUE	Compilation	OCCUR=2
$(455 \pm 6^{+31}_{-13}) - i(278 \pm 6^{+34}_{-43})$	¹⁰ CAPRINI	80	RVUE	Compilation	
$(463 \pm 6^{+31}_{-17}) - i(259 \pm 6^{+33}_{-34})$	¹¹ CAPRINI	08	RVUE	Compilation	OCCUR=2
$(552^{+84}_{-106}) - i(232^{+81}_{-72})$	¹² ABLIKIM	07A	BES2	$\psi(2S) \rightarrow \pi^+ \pi^- J/\psi$	
$(466 \pm 18) {-}i(223 \pm 28)$	¹³ BONVICINI	07	CLEO	$D^+ \rightarrow \pi^- \pi^+ \pi^+$	
$(472 \pm 30) - i(271 \pm 30)$	¹⁴ BUGG	07A	RVUE	Compilation	
$(484 \pm 17) {-}i(255 \pm 10)$	GARCIA-MAR	07	RVUE	Compilation	
(430)-i(325)	¹⁵ ANISOVICH	06	RVUE	Compilation	
(441 + 16) - i(272 + 9) - i(272 + 12)	¹⁶ CAPRINI	06	RVUE	$\pi \pi \rightarrow \pi \pi$	
$(470 \pm 50) - i(285 \pm 25)$	¹⁷ ZHOU	05	RVUE		
$(541 \pm 39) - i(252 \pm 42)$	¹⁸ ABLIKIM	04A	BES2	$J/\psi \rightarrow \omega \pi^+ \pi^-$	
$(528 \pm 32) - i(207 \pm 23)$	¹⁹ GALLEGOS	04	RVUE	Compilation	
$(533 \pm 25) - i(249 \pm 25)$	²⁰ BUGG	03	RVUE		
517 - i240	BLACK	01	RVUE	$\pi \pi \rightarrow \pi \pi$	
$(470 \pm 30) - i(295 \pm 20)$	¹⁶ COLANGELO	01	RVUE	$\pi\pi ightarrow \pi\pi$	
$(535^{+48}_{-36}) - i(155^{+76}_{-53})$	²¹ ISHIDA	01		$\Upsilon(3S) ightarrow \Upsilon \pi \pi$	
$610 \pm 14 - i(310 \pm 13)$	²² SUROVTSEV	01	RVUE	$\pi\pi ightarrow \pi\pi$, $K\overline{K}$	
$(540^{+36}_{-20}) - i(193^{+32}_{-40})$	ISHIDA	00 B		$p\overline{p} \rightarrow \pi^0 \pi^0 \pi^0$	
$445 - i235$ -40°	HANNAH	99	RVUE	π scalar form factor	
$(523 \pm 12) - i(259 \pm 7)$	KAMINSKI	99	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}, \sigma\sigma$	
442 - <i>i</i> 227	OLLER	99	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}$	
469 - <i>i</i> 203	OLLER	99 B	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}$	
445 - i221	OLLER	99C	RVUE	$\pi\pi ightarrow~\pi\pi$, $K\overline{K}$, $\eta\eta$	
$420 - i \ 212$	LOCHER	98	RVUE	$\pi\pi ightarrow~\pi\pi$, $K\overline{K}$	
440 - i245	²³ DOBADO	97	RVUE	Compilation	
$(602 \pm 26) {-}i(196 \pm 27)$	²⁴ ISHIDA	97		$\pi\pi ightarrow \pi\pi$	
$(537 \pm 20){-i}(250 \pm 17)$	²⁵ KAMINSKI	97 B	RVUE	$\pi \pi \rightarrow \pi \pi$, $K \overline{K}$, 4π	
470 — <i>i</i> 250	^{26,27} TORNQVIST	96	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}, K\pi, \eta\pi$	
387 - i305	^{27,28} JANSSEN	95	RVUE	$\pi \pi \pi \pi$, $K \overline{K}$	
420 <i>- i</i> 370	²⁹ ACHASOV	94	RVUE	$\pi\pi ightarrow \pi\pi$	
$(506 \pm 10) {-}i(247 \pm 3)$	KAMINSKI	94	RVUE	$\pi\pi ightarrow~\pi\pi$, K \overline{K}	
370 - i356	³⁰ ZOU	94B	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}$	
408 - i342	^{27,30} ZOU	93	RVUE	$\pi\pi \rightarrow \pi\pi, K\overline{K}$	
470 <i>- i</i> 208	³¹ VANBEVEREN	86	RVUE	$\pi\pi \rightarrow \pi\pi$, KK, $\eta\eta$,	
$(750 \pm 50) - i(450 \pm 50)$	³² ESTABROOKS	5 79	RVUE	$\pi \pi \rightarrow \pi \pi, K \overline{K}$	
$(660 \pm 100) - i(320 \pm 70)$	PROTOPOP	73	HBC	$\pi\pi \rightarrow \pi\pi, K\overline{K}$	
650 - <i>i</i> 370	³³ BASDEVANT	72	RVUE	$\pi\pi \rightarrow \pi\pi$	

Page 1

 1 Data driven analysis using partial-wave dispersion relations.

²S-matrix pole; 8595 events.

³ Applying the chiral unitary approach at NLO to the K_{e4} data of BATLEY 10 and $\pi N \rightarrow \pi \pi N$ data of HYAMS 73, GRAYER 74, and PROTOPOPESCU 73.

⁴ Uses the K_{e4} data of BATLEY 10C and the $\pi N \rightarrow \pi \pi N$ data of HYAMS 73, _GRAYER 74, and PROTOPOPESCU 73.

- 5 Analytic continuation using Roy equations.
- ⁶Analytic continuation using GKPY equations.

⁷Using Roy equations.

⁸ Average of three variants of the analytic K-matrix model. Uses the K_{e4} data of BAT-LEY 08A and the $\pi N \rightarrow \pi \pi N$ data of HYAMS 73 and GRAYER 74.

⁹Average of the analyses of three data sets in the K-matrix model. Uses the data of BATLEY 08A, HYAMS 73, and GRAYER 74, partially of COHEN 80 or ETKIN 82B.

¹⁰ From the K_{e4} data of BATLEY 08A and $\pi N \rightarrow \pi \pi N$ data of HYAMS 73.

¹¹ From the K_{e4} data of BATLEY 08A and $\pi N \rightarrow \pi \pi N$ data of PROTOPOPESCU 73, GRAYER 74, and ESTABROOKS 74.

¹² From a mean of three different $f_0(500)$ parametrizations. Uses 40k events.

 13 From an isobar model using 2.6k events.

¹⁴ Reanalysis of ABLIKIM 04Å, PISLAK 01, and HYAMS 73 data.

 15 Using the N/D method.

¹⁶ From the solution of the Roy equation (ROY 71) for the isoscalar S-wave and using a phase-shift analysis of HYAMS 73 and PROTOPOPESCU 73 data.

17 Reanalysis of the data from PROTOPOPESCU 73, ESTABROOKS 74, GRAYER 74, ROSSELET 77, PISLAK 03, and AKHMETSHIN 04.

¹⁸ From a mean of six different analyses and $f_0(500)$ parameterizations.

 19 Using data on $\psi(2S)$ \rightarrow $J/\psi\pi\pi$ from BÅI 00E and on $\Upsilon({\rm nS})$ \rightarrow $~\Upsilon({\rm mS})\pi\pi$ from BUTLER 94B and ALEXANDER 98. ²⁰ From a combined analysis of HYAMS 73, AUGUSTIN 89, AITALA 01B, and PISLAK 01.

²¹A similar analysis (KOMADA 01) finds $(580^{+79}_{-30}) - i(190^{+107}_{-49})$ MeV.

²²Coupled channel reanalysis of BATON 70, BENSINGER 71, BAILLON 72, HYAMS 73, HYAMS 75, ROSSELET 77, COHEN 80, and ETKIN 82B using the uniformizing variable.

 $^{23}\ensuremath{\mathsf{Using}}$ the inverse amplitude method and data of ESTABROOKS 73, GRAYER 74, and PROTOPOPESCU 73.

²⁴ Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.

²⁵ Average and spread of 4 variants ("up" and "down") of KAMINSKI 97B 3-channel model.

²⁶Uses data from BEIER 72B, OCHS 73, HYAMS 73, GRAYER 74, ROSSELET 77, CA-SON 83, ASTON 88, and ARMSTRONG 91B. Coupled channel analysis with flavor symmetry and all light two-pseudoscalars systems.

²⁷ Demonstrates explicitly that $f_0(500)$ and $f_0(1370)$ are two different poles.

²⁸ Analysis of data from FALVARD 88.

²⁹ Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.

 30 Analysis of data from OCHS 73, GRAYER 74, and ROSSELET 77.

³¹Coupled-channel analysis using data from PROTOPOPESCU 73, HYAMS 73, HYAMS 75, GRAYER 74, ESTABROOKS 74, ESTABROOKS 75, FROGGATT 77, COR-DEN 79, BISWAS 81.

³²Analysis of data from APEL 72C, GRAYER 74, CASON 76, PAWLICKI 77. Includes spread and errors of 4 solutions.

³³Analysis of data from BATON 70, BENSINGER 71, COLTON 71, BAILLON 72, PRO-TOPOPESCU 73, and WALKER 67.

f₀(500) BREIT-WIGNER MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
400 to 800 OU	R ESTIMATE			
\bullet \bullet \bullet We do not u	ise the following data f	or av	erages, f	its, limits, etc. • • •
513 ± 32	³⁴ MURAMATSU	02	CLEO	e^+e^-pprox 10 GeV
$478^{+24}_{-23}{\pm}17$	AITALA	01 B	E791	$D^+ \rightarrow \pi^- \pi^+ \pi^+$
563^{+58}_{-29}	³⁵ ISHIDA	01		$\Upsilon(3S) \rightarrow \Upsilon \pi \pi$
555	³⁶ ASNER	00	CLE2	$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_{\tau}$
$540\!\pm\!36$	ISHIDA	00 B		$p \overline{p} \rightarrow \pi^0 \pi^0 \pi^0$
$750\pm$ 4	ALEKSEEV	99	SPEC	1.78 $\pi^- p_{polar} \rightarrow \pi^- \pi^+ n$
$744\pm$ 5	ALEKSEEV	98	SPEC	1.78 $\pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
$759\pm$ 5	³⁷ TROYAN	98		5.2 $np \rightarrow np\pi^+\pi^-$
$780\!\pm\!30$	ALDE	97	GAM2	$450 \ pp \rightarrow \ pp \pi^0 \pi^0$
$585\!\pm\!20$	³⁸ ISHIDA	97		$\pi \pi \rightarrow \pi \pi$
$761\!\pm\!12$	³⁹ SVEC	96	RVUE	6-17 $\pi N_{\text{polar}} \rightarrow \pi^+ \pi^- N$
\sim 860	^{40,41} TORNQVIST	96	RVUE	$\pi \pi \rightarrow \pi \pi, K \overline{K}, K \pi, \eta \pi$
$1165\!\pm\!50$	^{42,43} ANISOVICH	95	RVUE	$\pi^- p \rightarrow \pi^0 \pi^0 n$
	20			$\overline{\rho}\rho \rightarrow \pi^0 \pi^0 \pi^0, \pi^0 \pi^0 \eta, \pi^0 \eta \eta$
$414\!\pm\!20$	³⁹ AUGUSTIN	89	DM2	

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NODE=M014PP;LINKAGE=GM

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NODE=M014PP;LINKAGE=MN

NODE=M014PP;LINKAGE=CA NODE=M014PP;LINKAGE=AP

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NODE=M014PP;LINKAGE=A

NODE=M014PP;LINKAGE=J

NODE=M014M

NODE=M014M \rightarrow UNCHECKED \leftarrow

- ³⁴ Statistical uncertainty only.
- 35 A similar analysis (KOMADA 01) finds 526^{+48}_{-37} MeV.
- 36 From the best fit of the Dalitz plot.
- $^{37}6\sigma$ effect, no PWA.
- ³⁸ Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.
- ³⁹ Breit-Wigner fit to S-wave intensity measured in $\pi N \rightarrow \pi^- \pi^+ N$ on polarized targets. The fit does not include $f_0(980)$.
- ⁴⁰Uses data from ASTON 88, OCHS 73, HYAMS 73, ARMSTRONG 91B, GRAYER 74, CASON 83, ROSSELET 77, and BEIER 72B. Coupled channel analysis with flavor symmetry and all light two-pseudoscalars systems. ⁴¹Also observed by ASNER 00 in $\tau^- \to \ \pi^- \pi^0 \pi^0 \nu_\tau$ decays.
- ⁴² Uses $\pi^0 \pi^0$ data from ANISOVICH 94, AMSLER 94D, and ALDE 95B, $\pi^+ \pi^-$ data from OCHS 73, GRAYER 74 and ROSSELET 77, and $\eta\eta$ data from ANISOVICH 94.
- $^{43}\,{\rm The}$ pole is on Sheet III. Demonstrates explicitly that $f_0(500)$ and $f_0(1370)$ are two different poles.

f₀(500) BREIT-WIGNER WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT	NODE=
100 to 800 OU	RESTIMATE				ightarrow UNC
• • • We do not	use the following data	for av	erages, f	ïts, limits, etc. ● ● ●	
$335\pm$ 67	⁴⁴ MURAMATSU	02	CLEO	e^+e^-pprox 10 GeV	
324^+ $^{42}_{40}\pm 21$	AITALA	01 B	E791	$D^+ \rightarrow \pi^- \pi^+ \pi^+$	
372^{+229}_{-95}	⁴⁵ ISHIDA	01		$\Upsilon(3S) ightarrow \Upsilon \pi \pi$	
540	⁴⁶ ASNER	00	CLE2	$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_{\tau}$	
$372\pm$ 80	ISHIDA	00 B		$p \overline{p} \rightarrow \pi^0 \pi^0 \pi^0$	
$119\pm~13$	ALEKSEEV	99	SPEC	1.78 $\pi^- p_{polar} \rightarrow \pi^- \pi^+ n$	
$77\pm~22$	ALEKSEEV	98	SPEC	1.78 $\pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$	
$35\pm$ 12	⁴⁷ TROYAN	98		5.2 $np \rightarrow np\pi^+\pi^-$	
$780\pm~60$	ALDE	97	GAM2	450 $pp \rightarrow pp \pi^0 \pi^0$	
$385\pm$ 70	⁴⁸ ISHIDA	97		$\pi\pi \rightarrow \pi\pi$	
$290\pm~54$	⁴⁹ SVEC	96	RVUE	6-17 $\pi N_{\text{polar}} \rightarrow \pi^+ \pi^- N$	
~ 880	^{50,51} TORNQVIST	96	RVUE	$\pi \pi ightarrow \pi \pi$, K \overline{K} , K π , $\eta \pi$	
$460\pm$ 40	^{52,53} ANISOVICH	95	RVUE	$\pi^- p \rightarrow \pi^0 \pi^0 n$	
494± 58	⁴⁹ AUGUSTIN	89	DM2	$\overline{p}p \rightarrow \pi^0 \pi^0 \pi^0, \pi^0 \pi^0 \eta, \pi^0 \eta \eta$	
44 Statistical unc	ertainty only				
45 Δ similar analy	$v_{\rm ris}$ (KOMADA 01) find	de 30.	+145		NODE=
	,515 (1.00 M/ 1.07 01) mil	us 50.	-100 '	vic v .	NODE=
47 6 offect no l					NODE=
⁴⁸ Reanalysis of c	lata from HYAMS 73,	GRAY	'ER 74, S	SRINIVASAN 75, and ROSSELET 77	NODE=
49 using the inter	fering amplitude metho	od.		$a_{1} = \pm a_{1} + \cdots + a_{n}$	
"Breit-Wigner f	it to S-wave intensity r	neasu	red in π	$N \rightarrow \pi^- \pi^+ N$ on polarized targets.	NODE=
⁵⁰ Uses data fror	n ASTON 88, OCHS	73, H	YAMS 7	3, ARMSTRONG 91B, GRAYER 74,	NODE=
CASON 83, R	OSSELET 77, and BEI	ER 72	2B. Coup	led channel analysis with flavor sym-	
51 Also observed	hy ASNED 00 in σ^{-}	syste	0 _0 .,	docave	
				τ decays.	NODE=
OCHS 73. GR	AYER 74 and ROSSEL	+, AN	7. and <i>n</i>	n data from ANISOVICH 94.	NODE=
⁵³ The pole is on Sheet III. Demonstrates explicitly that $f_0(500)$ and $f_0(1370)$ are two					NODF=
different poles				. . .	NODE-

f₀(500) DECAY MODES

	Mode	Fraction (Γ_i/Γ)	
Γ ₁	$\pi\pi$	seen	DESIG=1;OUR EST;
Γ ₂	$\gamma \gamma$	seen	DESIG=5;OUR EST;

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NODE=M014M;LINKAGE=E

NODE=M014M;LINKAGE=B

NODE=M014M;LINKAGE=GG NODE=M014M;LINKAGE=F

NODE=M014M;LINKAGE=G

NODE=M014W

=M014W HECKED ←

=M014W;LINKAGE=UT

=M014W;LINKAGE=KI =M014W;LINKAGE=KK =M014W;LINKAGE=TN =M014W;LINKAGE=AA

=M014W;LINKAGE=E

=M014W;LINKAGE=B

=M014W;LINKAGE=GG =M014W;LINKAGE=F

=M014W;LINKAGE=G

NODE=M014215;NODE=M014

 \rightarrow UNCHECKED \leftarrow \rightarrow UNCHECKED \leftarrow

f₀(500) PARTIAL WIDTHS

$\Gamma(\gamma \gamma)$				Г2
VALUE (keV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the fol	lowing data for average	ges, fi	ts, limits	, etc. • • •
$1.37 {\pm} 13 \ +0.09 \\ -0.06$	⁵⁴ DANILKIN	21	RVUE	Compilation
$2.05\pm$ 0.21	⁵⁵ DAI	14A	RVUE	Compilation
$1.7~\pm~0.4$	⁵⁶ HOFERICHT	. 11	RVUE	Compilation
$3.08 \pm \hspace{0.1 cm} 0.82$	⁵⁷ MENNESSIER	11	RVUE	Compilation
$2.08 \pm \ 0.2 \ \begin{array}{c} +0.07 \\ -0.04 \end{array}$	⁵⁸ MOUSSALLA	M11	RVUE	Compilation
2.08	⁵⁹ MAO	09	RVUE	Compilation
$1.2~\pm~0.4$	⁶⁰ BERNABEU	08	RVUE	
$3.9~\pm~0.6$	⁵⁷ MENNESSIER	08	RVUE	$\gamma \gamma \rightarrow \pi^+ \pi^-, \pi^0 \pi^0$
$1.8~\pm~0.4$	⁶¹ OLLER	08	RVUE	Compilation
$1.68\pm$ 0.15	^{61,62} OLLER	08A	RVUE	Compilation
$3.1~\pm~0.5$	63,64 PENNINGTON	80 I	RVUE	Compilation
$2.4~\pm~0.4$	64,65 PENNINGTON	80 I	RVUE	Compilation
$4.1~\pm~0.3$	66 PENNINGTON	06	RVUE	$\gamma \gamma \rightarrow \pi^0 \pi^0$
$3.8~\pm~1.5$	67,68 BOGLIONE	99	RVUE	$\gamma \gamma \rightarrow \pi^+ \pi^-, \pi^0 \pi^0$
$5.4~\pm~2.3$	⁶⁷ MORGAN	90	RVUE	$\gamma \gamma \rightarrow \pi^+ \pi^-, \pi^0 \pi^0$
10 ± 6	COURAU	86	DM1	$e^+e^- \rightarrow \pi^+\pi^-e^+e^-$

 54 Using the value of the coupled channel analysis.

 55 Using dispersive analysis with phases from GARCIA-MARTIN 11A and BUETTIKER 04 as input.

 $^{\rm 56}{\rm Using}$ Roy-Steiner equations with $\pi\pi$ phase shifts from an update of COLANGELO 01 and from GARCIA-MARTIN 11A. 57 Using an analytic K-matrix model.

⁵⁸ Using dispersion integral with phase input from Roy equations and data from MAR-SISKE 90, BOYER 90, BEHREND 92, UEHARA 08A, and MORI 07.

 59 Used dispersion theory. The value quoted used the $f_0(500)$ pole position of 457 -i276

MeV. 60 Using *p*, *n* polarizabilities from PDG 06 and fitting to $\pi\pi$ phase motion from GARCIA-CAPCIA MAPTIN 07 and CAPRINI 06. MARTIN 07 and σ -poles from GARCIA-MARTIN 07 and CAPRINI 06.

- ⁶¹Using twice-subtracted dispersion integrals.
- ⁶²Supersedes OLLER 08.
- ⁶³Solution A (preferred solution based on χ^2 -analysis).
- ⁶⁴ Dispersion theory based amplitude analysis of BOYER 90, MARSISKE 90, BEHREND 92, and MORI 07. ⁶⁵Solution B (worse than solution A; still acceptable when systematic uncertainties are
- included).

 66 Using unitarity and the σ pole position from CAPRINI 06.

 67 This width could equally well be assigned to the $f_0(1370)$. The authors analyse data from BOYER 90 and MARSISKE 90 and report strong correlation with $\gamma\gamma$ width of $f_2(1270)$.

⁶⁸ Supersedes MORGAN 90.

f₀(500) REFERENCES

DANILKIN SARANTSEV ABLIKIM DAI ALBALADEJO GARCIA-MAR GARCIA-MAR MENNESSIER MOUSSALLAM BATLEY BATLEY MENNESSIER MAO BATLEY BERNABEU CAPRINI MENNESSIER OLLER PENNINGTON UEHARA ABLIKIM BONVICINI BUGG GARCIA-MAR MORI ANISOVICH	21 21 17 14A 12 11 11 11 11 10 10 09 08A 08 08 08 08 08 08 08 08 08 07 07 07 07 06	PR D103 114023 PL B816 136227 PRL 118 012001 PR D90 036004 PR D86 034003 PRL 107 072001 PR D83 074004 EPJ C71 1743 PL B696 40 EPJ C71 1814 PL B686 101 EPJ C70 635 PL B688 59 PR D79 116008 EPJ C54 411 PRL 100 241804 PR D77 114019 PL B665 205 PL B659 201 EPJ A37 15 EPJ C56 1 PR D78 052004 PL B645 19 PR D76 012001 JP G34 151 PR D76 074034 PR D75 0511101 IMP A21 3615
	07	DP D76 07/03/
GARCIA-MAR MARI	07	PP D75 051101
	06	LIMP Δ21 3615
CAPRINI	00	PRI 06 132001
	00	IP C33 1
	00	DPI 07 011601
	00	IHED 0502 043
21100	00	JILE 0302 043

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A.V. Sarantsev et al.		(BONN, PNPI)
M. Ablikim et al.		(BESIII Collab.)
LY. Dai, M.R. Pennington		CEBAF)
M. Albaladejo, J.A. Oller		(MURC)
R. Garcia-Martin et al.		(MADR. CRAC)
R. Garcia-Martin et al.		(MADR, CRAC)
M. Hoferichter, D.R. Phillips, C.	Schat	(BONN+)
G. Mennessier, S. Narison, XG.	Wang	(- ,)
B. Moussallam		
I.R. Batlev et al	(CFRN	NA48/2 Collab)
IR Batley et al	CERN	NA48/2 Collab
G. Mennessier, S. Narison, XG.	Wang	(11/10/2 Collab.)
Y. Mao et al.		
J.R. Batley et al.	(CERN	NA48/2 Collab.)
J. Bernabeu, J. Prades	((IFIC. GRAN)
I. Caprini		()
G. Mennessier, S. Narison, W. C	Ochs	
J.A. Oller, L. Roca, C. Schat		(MURC. UBA)
J.A. Oller, L. Roca		(MURC)
M.R. Pennington et al.		()
S. Uehara <i>et al.</i>		(BELLE Collab.)
M. Ablikim et al.		(BES Collab.)
G. Bonvicini et al.		(CLEO Collab.)
D.V. Bugg et al.		()
R. Garcia-Martin, J.R. Pelaez, F.	J. Yndi	urain
T. Mori <i>et al.</i>		(BELLE Collab.)
V.V. Anisovich		(
I. Caprini, G. Colangelo, H. Leut	wyler	(BCIP+)
WM. Yao et al.		(PDG Collab.)
M.R. Pennington		```
Z.Y. Zhou <i>et al.</i>		

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A LOUIS AFTER LUNC	04A	PL B598 149	M. Ablikim <i>et al.</i> (BES Collab.)
	04	PL B578 285	R.R. Akhmetshin <i>et al.</i> (Novosibirsk CMD-2 Collab.)
GALLEGOS	04	PR D69 074033	A. Gallegos <i>et al.</i>
BUGG	03	PL B572 1	D.V. Bugg
PISLAK	03	PR D67 072004	S. Pislak et al. (BNL E865 Collab.)
Also		PR D81 119903E	S. Pislak <i>et al.</i> (BNL E865 Collab.)
MURAMATSU	02	PRL 89 251802	H. Muramatsu <i>et al.</i> (CLEO Collab.)
Also	01 D	PRL 90 059901 (errat.)	H. Muramatsu <i>et al.</i> (CLEO Collab.)
	018	PRL 80 //U PR D64 014031	E.M. Aitala et al. (FNAL E791 Collab.)
COLANGELO	01	NP B603 125	G Colangelo I Gasser H Levtwyler
ISHIDA	01	PL B518 47	M. Ishida <i>et al.</i>
KOMADA	01	PL B508 31	T. Komada <i>et al.</i>
PISLAK	01	PRL 87 221801	S. Pislak <i>et al.</i> (BNL E865 Collab.)
Also		PR D67 072004	S. Pislak <i>et al.</i> (BNL E865 Collab.)
Also		PRL 105 019901E	S. Pislak <i>et al.</i> (BNL E865 Collab.)
SUROVISEV	01	PR D63 054024	Y.S. Surovtsev, D. Krupa, M. Nagy
ASNER	00	PR D61 012002	D.M. Asher et al. (CLEO Collab.)
ISHIDA	00E	PTP 104 203	M Ishida et al
ALEKSEEV	99	NP B541 3	I.G. Alekseev et al.
BOGLIONE	99	EPJ C9 11	M. Boglione, M.R. Pennington
HANNAH	99	PR D60 017502	T. Hannah
KAMINSKI	99	EPJ C9 141	R. Kaminski, L. Lesniak, B. Loiseau (CRAC, PARIN)
OLLER	99	PR D60 099906 (errat.)	J.A. Oller et al.
OLLER	99B	NP A652 407 (errat.)	J.A. Oller, E. Oset
OLLER	99C	PR D60 074023	J.A. Oller, E. Oset
ALEKSEEV	98	PAN 61 174	I.G. Alekseev et al.
	98	PR D58 052004	J.P. Alexander et al. (CLEO Collab.)
	98	EPJ C4 317	W. Trough et al. (PSI)
ALDE	90 97	PI R307 350	DM Alde et al. (GAMS Collab.)
DOBADO	97	PR D56 3057	A Dobado I R Pelaez
ISHIDA	97	PTP 98 1005	S. Ishida <i>et al.</i> (TOKY, MIYA, KEK)
KAMINSKI	97B	PL B413 130	R. Kaminski, L. Lesniak, B. Loiseau (CRAC, IPN)
Also		PTP 95 745	S. Ishida <i>et al.</i> (TOKY, MIYA, KEK)
SVEC	96	PR D53 2343	M. Svec (MCGI)
TORNQVIST	96	PRL 76 1575	N.A. Tornqvist, M. Roos (HELS)
ALDE	95B	ZPHY C66 375	D.M. Alde <i>et al.</i> (GAMS Collab.)
ANISOVICH	95	PL B355 363	V.V. Anisovich <i>et al.</i> (PNPI, SERP)
JANSSEN	95	PR D52 2690	G. Janssen <i>et al.</i> (STON, ADLD, JULI)
	94 04 D	PR D49 5779 DI B333 277	N.N. Achasov, G.N. Snestakov (NUVIVI)
ANISOVICH	940	PL B323 233	V V Anisovich et al. (Crystal Barrel Collab.)
	040	12 0323 233	
BUTTER	94B	PR D49 40	F Butler et al (CLEO) Collab)
KAMINSKI	94B 94	PR D49 40 PR D50 3145	F. Butler <i>et al.</i> (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+)
KAMINSKI ZOU	94B 94 94B	PR D49 40 PR D50 3145 PR D50 591	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM)
KAMINSKI ZOU ZOU	94B 94 94B 93	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM)
KAMINSKI ZOU ZOU BEHREND	94B 94 94B 93 92	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.)
KAMINSKI ZOU ZOU BEHREND ARMSTRONG	94B 94 94B 93 92 91B	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+)
KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER	94B 94 94B 93 92 91B 90	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.)
KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE	94B 94 94B 93 92 91B 90 90	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPLY C66 62 22	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.)
KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN	94B 94 94B 93 92 91B 90 90 90 90	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP P20 1	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) LE Averstin C. Carama
KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON	94B 94 94B 93 92 91B 90 90 90 89 88	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B320 4	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC NAGO (DMC INILS)
BUTLER KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD	94B 94 94B 93 92 91B 90 90 90 89 88 88 88	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, ERAS, LALO+)
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU	94B 94 94B 93 92 91B 90 90 90 89 88 88 88 88 88	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B220 1 NP B296 493 PR D38 2706 NP B271 1	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Crystal Ball Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Curau et al. (CLER, FRAS, LALO+)
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN	94B 94 94B 93 92 91B 90 90 90 89 88 88 88 88 88 86 86	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) J. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (CLER, FRAS, LALO+) A. Courau et al. (CLER, LALO) E. van Beveren et al. (NIJM, BIEL)
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON	94B 94 94B 93 92 91B 90 90 90 89 88 88 88 88 86 86 83	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (NDAM, ANL)
BUTLER KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN	94B 94 94B 92 91B 90 90 90 90 90 89 88 88 88 88 86 86 83 82B	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586 PR D25 1786	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (NDAM, ANL) A. Etkin et al. (BNL, CUNY, TUFTS, VAND)
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN BISWAS	94B 94 94 92 91B 90 90 90 90 90 88 88 88 88 86 86 83 82B 81	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B320 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586 PR D28 1586 PR D25 1786 PRL 47 1378	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) H. Marsiske et al. (Crystal Ball Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (BNL, CUNY, TUFTS, VAND) N.N. Biswas et al. (NDAM, ANL)
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN BISWAS COHEN	94B 94 94 93 92 91B 90 90 90 90 90 88 88 88 86 88 86 83 82B 81 80	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B220 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586 PR D25 1786 PR D25 1786 PR D22 2595	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (BNL, CUNY, TUFTS, VAND) N.N. Biswas et al. (ANL) D. Cohen et al. (ANL) [JP
BUILER KAMINSKI ZOU BEHREND ARMSTRONG BOYER MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN BISWAS COHEN MUKHIN	94B 94 94 93 92 91B 90 90 90 90 88 88 88 88 86 83 82B 81 80 80	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586 PR D25 1786 PR D47 1378 PR D22 2595 JETPL 32 601 Tearelted from ZETER 5	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Mark II Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Fourau et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (BNL, CUNY, TUFTS, VAND) N.N. Biswas et al. (NDAM, ANL) D. Cohen et al. (NDAM, ANL) P. Cohen et al. (NDAM, ANL) P. Cohen et al. (KIAE)
BUILER KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN BISWAS COHEN MUKHIN CORDEN	94B 94 94B 93 92 91B 90 90 90 88 88 88 88 88 88 88 83 82 81 80 80 79	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D42 1350 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D28 1586 PR D25 1786 PR D25 1786 PR D25 1786 PR D25 1786 PR D25 1786 PR D25 1786 PR D25 1787 PR D22 2595 JETPL 32 601 Translated from ZETFP 3	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Crystal Ball Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Falvard et al. (CLER, FRAS, LALO+) A. Falvard et al. (NDAM, BIEL) N.M. Cason et al. (NDAM, BIEL) N.M. Cason et al. (NDAM, ANL) A. Etkin et al. (BNL, CUNY, TUFTS, VAND) N.N. Biswas et al. (NDAM, ANL) D. Cohen et al. (KIAE) 22 616. (BIRM, BHEL, TELA+) JP
BUILER KAMINSKI ZOU ZOU BEHREND ARMSTRONG BOYER MARSISKE MORGAN AUGUSTIN ASTON FALVARD COURAU VANBEVEREN CASON ETKIN BISWAS COHEN MUKHIN CORDEN ESTABROOKS	94B 94 94B 93 92 91B 90 90 90 89 88 88 88 88 86 83 82B 81 80 80 79 79	PR D49 40 PR D50 3145 PR D50 591 PR D48 3948 ZPHY C56 381 ZPHY C52 389 PR D41 3324 ZPHY C48 623 NP B320 1 NP B296 493 PR D38 2706 NP B271 1 ZPHY C30 615 PR D25 1786 PR D25 1786 PR D25 1786 PR D25 1786 PR D22 2595 JETPL 32 601 Translated from ZETFP 3 NP B157 250 PR D19 2678	F. Butler et al. (CLEO Collab.) R. Kaminski, L. Lesniak, J.P. Maillet (CRAC+) B.S. Zou, D.V. Bugg (LOQM) H.J. Behrend (CELLO Collab.) T.A. Armstrong et al. (ATHU, BARI, BIRM+) J. Boyer et al. (ATHU, BARI, BIRM+) J. Boyer et al. (Crystal Ball Collab.) H. Marsiske et al. (Crystal Ball Collab.) D. Morgan, M.R. Pennington (RAL, DURH) J.E. Augustin, G. Cosme (DM2 Collab.) D. Aston et al. (SLAC, NAGO, CINC, INUS) A. Falvard et al. (CLER, FRAS, LALO+) A. Courau et al. (CLER, FRAS, LALO+) A. Courau et al. (NIJM, BIEL) N.M. Cason et al. (NDAM, ANL) A. Etkin et al. (BNL, CUNY, TUFTS, VAND) N.N. Biswas et al. (NDAM, ANL) D. Cohen et al. (KIAE) 22 616. M.J. Corden et al. (BIRM, RHEL, TELA+) JP P. Estabrooks (CARL)
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