

b

$$I(J^P) = 0(\frac{1}{2}^+)$$

Charge = $-\frac{1}{3}$ e Bottom = -1

b-QUARK MASS

b-quark mass corresponds to the “running mass” $\bar{m}_b(\mu = \bar{m}_b)$ in the $\overline{\text{MS}}$ scheme. We have converted masses in other schemes to the $\overline{\text{MS}}$ mass using two-loop QCD perturbation theory with $\alpha_s(\mu = \bar{m}_b) = 0.223 \pm 0.008$.

The value $4.18^{+0.04}_{-0.03}$ GeV for the $\overline{\text{MS}}$ mass corresponds to 4.78 ± 0.06 GeV for the pole mass, using the two-loop conversion formula. A discussion of masses in different schemes can be found in the “Note on Quark Masses.”

$\overline{\text{MS}}$ MASS (GeV)	CL%	DOCUMENT ID	TECN	
4.183±0.007 (CL = 90%) OUR EVALUATION				NODE=Q005M → UNCHECKED ←
3.94 $^{+0.46}_{-0.40}$		1 APARISI	22 THEO	OCCUR=2
4.202 ± 0.021		2 HATTON	21 LATT	
4.197 ± 0.008		3 NARISON	20 THEO	
4.049 $^{+0.138}_{-0.118}$		4 ABRAMOWICZ18	HERA	
4.195 ± 0.014		5 BAZAVOV	18 LATT	
4.186 ± 0.037		6 PESET	18 THEO	
4.197 ± 0.022		7 KIYO	16 THEO	
4.183 ± 0.037		8 ALBERTI	15 THEO	
4.203 $^{+0.016}_{-0.034}$		9 BENEKE	15 THEO	
4.196 ± 0.023		10 COLQUHOUN	15 LATT	
4.176 ± 0.023		11 DEHNADI	15 THEO	
4.21 ± 0.11		12 BERNARDONI	14 LATT	
4.169 $\pm 0.002 \pm 0.008$		13 PENIN	14 THEO	
4.166 ± 0.043		14 LEE	130 LATT	
4.247 ± 0.034		15 LUCHA	13 THEO	
4.171 ± 0.009		16 BODENSTEIN	12 THEO	
4.29 ± 0.14		17 DIMOPOUL...	12 LATT	
4.18 $^{+0.05}_{-0.04}$		18 LASCHKA	11 THEO	
4.186 $\pm 0.044 \pm 0.015$		19 AUBERT	10A BABR	
4.163 ± 0.016		20 CHETYRKIN	09 THEO	
4.243 ± 0.049		21 SCHWANDA	08 BELL	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
4.184 ± 0.011		22 NARISON	18A THEO	OCCUR=2
4.188 ± 0.008		23 NARISON	18B THEO	
4.07 ± 0.17		24 ABRAMOWICZ14A	ZEUS	
4.201 ± 0.043		25 AYALA	14A THEO	
4.236 ± 0.069		26 NARISON	13 THEO	
4.213 ± 0.059		27 NARISON	13A THEO	
4.235 $\pm 0.003 \pm 0.055$		28 HOANG	12 THEO	
4.212 ± 0.032		29 NARISON	12 THEO	
4.177 ± 0.011		30 NARISON	12 THEO	
4.171 ± 0.014		31 NARISON	12A THEO	
4.164 ± 0.023		32 MCNEILE	10 LATT	
4.173 ± 0.010		33 NARISON	10 THEO	
5.26 ± 1.2		34 ABDALLAH	08D DLPH	
4.42 $\pm 0.06 \pm 0.08$		35 GUAZZINI	08 LATT	
4.347 $\pm 0.048 \pm 0.08$		36 DELLA-MOR...	07 LATT	
4.164 ± 0.025		37 KUHN	07 THEO	
4.19 ± 0.40		38 ABDALLAH	06D DLPH	
4.205 ± 0.058		39 BOUGHEZAL	06 THEO	
4.20 ± 0.04		40 BUCHMUEL...	06 THEO	
4.19 ± 0.06		41 PINEDA	06 THEO	
4.4 ± 0.3		42 GRAY	05 LATT	
4.22 ± 0.06		43 AUBERT	04X THEO	
4.17 ± 0.03		44 BAUER	04 THEO	
4.22 ± 0.11		45 HOANG	04 THEO	
4.25 ± 0.11		46 MCNEILE	04 LATT	
4.22 ± 0.09		47 BAUER	03 THEO	
4.19 ± 0.05		48 BORDES	03 THEO	

4.20 \pm 0.09	49	CORCELLA	03	THEO
4.33 \pm 0.10	50	DEDIVITIIS	03	LATT
4.24 \pm 0.10	51	EIDEMULLER	03	THEO
4.207 \pm 0.03	52	ERLER	03	THEO
4.33 \pm 0.06 \pm 0.10	53	MAHMOOD	03	CLEO
4.190 \pm 0.032	54	BRAMBILLA	02	THEO
4.346 \pm 0.070	55	PENIN	02	THEO

- 1 APARISI 22 determine m_b at the Higgs mass, $\bar{m}_b(m_H) = 2.60^{+0.36}_{-0.31}$ GeV from Higgs boson decay rates at the LHC, which is used to obtain $\bar{m}_b(\bar{m}_b)$.
- 2 HATTON 21 determine $\bar{m}_b(3 \text{ GeV}) = 4.513 \pm 0.026$ GeV using a lattice QCD + quenched QED simulation using the HISQ action and including $n_f = 2+1+1$ flavors of sea quarks, by combining their \bar{m}_b/\bar{m}_c and \bar{m}_c determinations.
- 3 NARISON 20 determines the quark mass using QCD Laplace sum rules from the B_c mass, combined with previous determinations of the QCD condensates and c and b masses.
- 4 ABRAMOWICZ 18 determine $\bar{m}_b(\bar{m}_b) = 4.049^{+0.104}_{-0.109}{}^{+0.090}_{-0.032}{}^{+0.001}_{-0.031}$ from the production of b quarks in $e p$ collisions at HERA using combined H1 and ZEUS data. The experimental/fitting errors, and those from modeling and parameterization have been combined in quadrature.
- 5 BAZAVOV 18 determine the b mass using a lattice computation with staggered fermions and five active quark flavors.
- 6 PESET 18 determine $\bar{m}_c(\bar{m}_c)$ and $\bar{m}_b(\bar{m}_b)$ using an N3LO calculation of the η_c , η_b and B_c masses.
- 7 KIYO 16 determine $\bar{m}_b(\bar{m}_b)$ from the $\Upsilon(1S)$ mass at order α_s^3 (N3LO).
- 8 ALBERTI 15 determine $\bar{m}_b(\bar{m}_b)$ from fits to inclusive $B \rightarrow X_c e \bar{\nu}$ decay. They also find $m_b^{\text{kin}}(1 \text{ GeV}) = 4.553 \pm 0.020$ GeV.
- 9 BENEKE 15 determine $\bar{m}_b(\bar{m}_b)$ using sum rules for $e^+ e^- \rightarrow$ hadrons at order N3LO including finite m_c effects. They find $m_b^{\text{PS}}(2 \text{ GeV}) = 4.532^{+0.013}_{-0.039}$ GeV, and $\bar{m}_b(\bar{m}_b) = 4.193^{+0.022}_{-0.035}$ GeV. The value quoted is obtained using the four-loop conversion given in BENEKE 16.
- 10 COLQUHOUN 15 determine $\bar{m}_b(\bar{m}_b)$ from moments of the vector current correlator computed with a lattice simulation using the NRQCD action.
- 11 DEHNADI 15 determine $\bar{m}_b(\bar{m}_b)$ using sum rules for $e^+ e^- \rightarrow$ hadrons at order α_s^3 (N3LO), and fitting to both experimental data and lattice results.
- 12 BERNARDONI 14 determine m_b from $n_f = 2$ lattice calculations using heavy quark effective theory non-perturbatively renormalized and matched to QCD at $1/m$ order.
- 13 PENIN 14 determine $\bar{m}_b(\bar{m}_b) = 4.169 \pm 0.008 \pm 0.002 \pm 0.002$ using an estimate of the order α_s^3 b -quark vacuum polarization function in the threshold region, including finite m_c effects. The errors of ± 0.008 from theoretical uncertainties, and ± 0.002 from α_s have been combined in quadrature.
- 14 LEE 130 determines m_b using lattice calculations of the Υ and B_s binding energies in NRQCD, including three light dynamical quark flavors. The quark mass shift in NRQCD is determined to order α_s^2 , with partial α_s^3 contributions.
- 15 LUCHA 13 determines m_b from QCD sum rules for heavy-light currents using the lattice value for f_B of 191.5 ± 7.3 GeV.
- 16 BODENSTEIN 12 determine m_b using sum rules for the vector current correlator and the $e^+ e^- \rightarrow Q \bar{Q}$ total cross-section.
- 17 DIMOPOULOS 12 determine quark masses from a lattice computation using $n_f = 2$ dynamical flavors of twisted mass fermions.
- 18 LASCHKA 11 determine the b mass from the charmonium spectrum. The theoretical computation uses the heavy $Q \bar{Q}$ potential to order $1/m_Q$ obtained by matching the short-distance perturbative result onto lattice QCD result at larger scales.
- 19 AUBERT 10A determine the b - and c -quark masses from a fit to the inclusive decay spectra in semileptonic B decays in the kinetic scheme (and convert it to the $\overline{\text{MS}}$ scheme).
- 20 CHETYRKIN 09 determine m_c and m_b from the $e^+ e^- \rightarrow Q \bar{Q}$ cross-section and sum rules, using an order α_s^3 (N3LO) computation of the heavy quark vacuum polarization.
- 21 SCHWANDA 08 measure moments of the inclusive photon spectrum in $B \rightarrow X_s \gamma$ decay to determine m_b^{1S} . We have converted this to $\overline{\text{MS}}$ scheme.
- 22 NARISON 18A determines $\bar{m}_b(\bar{m}_b)$ as a function of α_s using QCD exponential sum rules and their ratios evaluated at the optimal scale $\mu = 9.5$ GeV at N2LO-N3LO of perturbative QCD and including condensates up to dimension 6–8 in the (axial-)vector and (pseudo-)scalar bottomonium channels.
- 23 NARISON 18B determines $\bar{m}_b(\bar{m}_b)$ using QCD vector moment sum rules and their ratios at N2LO-N3LO of perturbative QCD and including condensates up to dimension 8.
- 24 ABRAMOWICZ 14A determine $\bar{m}_b(\bar{m}_b) = 4.07 \pm 0.14^{+0.01}_{-0.07}{}^{+0.05}_{-0.00}{}^{+0.08}_{-0.05}$ from the production of b quarks in $e p$ collisions at HERA. The errors due to fitting, modeling, PDF parameterization, and theoretical QCD uncertainties due to the values of α_s , m_c , and the renormalization scale μ have been combined in quadrature.
- 25 AYALA 14A determine $\bar{m}_b(\bar{m}_b)$ from the $\Upsilon(1S)$ mass computed to N3LO order in perturbation theory using a renormalon subtracted scheme.

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- 26 NARISON 13 determines m_b using QCD spectral sum rules to order α_s^2 (NNLO) and including condensates up to dimension 6.
- 27 NARISON 13A determines m_b using HQET sum rules to order α_s^2 (NNLO) and the B meson mass and decay constant.
- 28 HOANG 12 determine m_b using non-relativistic sum rules for the γ system at order α_s^2 (NNLO) with renormalization group improvement.
- 29 NARISON 12 determines m_b using exponential sum rules for the vector current correlator to order α_s^3 , including the effect of gluon condensates up to dimension eight.
- 30 Determines m_b to order α_s^3 (N3LO), including the effect of gluon condensates up to dimension eight combining the methods of NARISON 12 and NARISON 12A.
- 31 NARISON 12A determines m_b using sum rules for the vector current correlator to order α_s^3 , including the effect of gluon condensates up to dimension eight.
- 32 MCNEILE 10 determines m_b by comparing order α_s^3 (N3LO) perturbative results for the pseudo-scalar current to lattice simulations with $n_f = 2+1$ sea-quarks by the HPQCD collaboration.
- 33 NARISON 10 determines m_b from ratios of moments of vector current correlators computed to order α_s^3 and including the dimension-six gluon condensate. These values are taken from the erratum to that reference.
- 34 ABDALLAH 08D determine $\bar{m}_b(M_Z) = 3.76 \pm 1.0$ GeV from a leading order study of four-jet rates at LEP.
- 35 GUAZZINI 08 determine $\bar{m}_b(\bar{m}_b)$ from a quenched lattice simulation of heavy meson masses. The ± 0.08 is an estimate of the quenching error.
- 36 DELLA-MORTE 07 determine $\bar{m}_b(\bar{m}_b)$ from a computation of the spin-averaged B meson mass using quenched lattice HQET at order $1/m$. The ± 0.08 is an estimate of the quenching error.
- 37 KUHN 07 determine $\bar{m}_b(\mu = 10 \text{ GeV}) = 3.609 \pm 0.025$ GeV and $\bar{m}_b(\bar{m}_b)$ from a four-loop sum-rule computation of the cross-section for $e^+ e^- \rightarrow \text{hadrons}$ in the bottom threshold region.
- 38 ABDALLAH 06D determine $m_b(M_Z) = 2.85 \pm 0.32$ GeV from Z -decay three-jet events containing a b -quark.
- 39 BOUGHEZAL 06 $\overline{\text{MS}}$ scheme result comes from the first moment of the hadronic production cross-section to order α_s^3 .
- 40 BUCHMUELLER 06 determine m_b and m_c by a global fit to inclusive B decay spectra.
- 41 PINEDA 06 $\overline{\text{MS}}$ scheme result comes from a partial NNLL evaluation (complete at order α_s^2 (NNLO)) of sum rules of the bottom production cross-section in $e^+ e^-$ annihilation.
- 42 GRAY 05 determines $\bar{m}_b(\bar{m}_b)$ from a lattice computation of the γ spectrum. The simulations have 2+1 dynamical light flavors. The b quark is implemented using NRQCD.
- 43 AUBERT 04X obtain m_b from a fit to the hadron mass and lepton energy distributions in semileptonic B decay. The paper quotes values in the kinetic scheme. The $\overline{\text{MS}}$ value has been provided by the BABAR collaboration.
- 44 BAUER 04 determine m_b , m_c and $m_b - m_c$ by a global fit to inclusive B decay spectra.
- 45 HOANG 04 determines $\bar{m}_b(\bar{m}_b)$ from moments at order α_s^2 of the bottom production cross-section in $e^+ e^-$ annihilation.
- 46 MCNEILE 04 use lattice QCD with dynamical light quarks and a static heavy quark to compute the masses of heavy-light mesons.
- 47 BAUER 03 determine the b quark mass by a global fit to B decay observables. The experimental data includes lepton energy and hadron invariant mass moments in semileptonic $B \rightarrow X_c \ell \nu_\ell$ decay, and the inclusive photon spectrum in $B \rightarrow X_s \gamma$ decay. The theoretical expressions used are of order $1/m^3$, and $\alpha_s^2 \beta_0$.
- 48 BORDES 03 determines m_b using QCD finite energy sum rules to order α_s^2 .
- 49 CORCELLA 03 determines \bar{m}_b using sum rules computed to order α_s^2 . Includes charm quark mass effects.
- 50 DEDIVITIIS 03 use a quenched lattice computation of heavy-heavy and heavy-light meson masses.
- 51 EIDEMULLER 03 determines \bar{m}_b and \bar{m}_c using QCD sum rules.
- 52 ERLER 03 determines \bar{m}_b and \bar{m}_c using QCD sum rules. Includes recent BES data.
- 53 MAHMOOD 03 determines m_b^{1S} by a fit to the lepton energy moments in $B \rightarrow X_c \ell \nu_\ell$ decay. The theoretical expressions used are of order $1/m^3$ and $\alpha_s^2 \beta_0$. We have converted their result to the $\overline{\text{MS}}$ scheme.
- 54 BRAMBILLA 02 determine $\bar{m}_b(\bar{m}_b)$ from a computation of the $\gamma(1S)$ mass to order α_s^4 , including finite m_c corrections.
- 55 PENIN 02 determines \bar{m}_b from the spectrum of the γ system.

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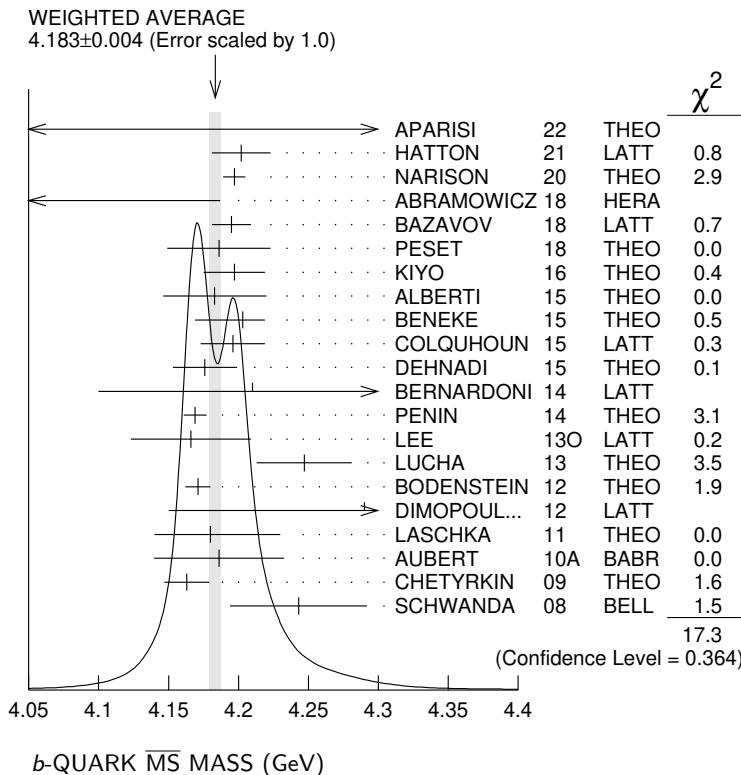
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m_b/m_s MASS RATIO

VALUE	DOCUMENT ID	TECN
53.88±0.12 OUR AVERAGE		
53.94±0.12	¹ BAZAVOV 18	LATT
52.55±0.55	² CHAKRABORTY..15	LATT

¹ BAZAVOV 18 determine the quark masses using a lattice computation with staggered fermions and four active quark flavors for the u , d , s , c quarks and five active flavors for the b quark.

² CHAKRABORTY 15 determine m_b/m_s from lattice QCD using the HISQ action and including $n_f = 2+1+1$ flavors of sea quarks.

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APARISI	22	PRL 128 122001	J. Aparisi <i>et al.</i>	(VALE, WIEN, PSI+)	REFID=62633
HATTON	21	PR D103 114508	D. Hatton <i>et al.</i>	(HPQCD Collab.)	REFID=62042
NARISON	20	PL B802 135221	S. Narison	(MONP)	REFID=60207
ABRAMOWICZ	18	EPJ C78 473	H. Abramowicz <i>et al.</i>	(H1 and ZEUS Collabs.)	REFID=59184
BAZAVOV	18	PR D98 054517	A. Bazavov <i>et al.</i>	(Fermilab Lattice, MILC, TUMQCD)	REFID=59445
NARISON	18A	IJMP A33 1850045	S. Narison	(MONP)	REFID=59054
NARISON	18B	PL B784 261	S. Narison	(MONP)	REFID=59398
PESET	18	JHEP 1809 167	C. Peset, A. Pineda, J. Segovia	(BARC, TUM)	REFID=59348
BENEKE	16	PoS RADCOR2015 035	M. Beneke <i>et al.</i>		REFID=57165
KIYO	16	PL B752 122	Y. Kiyo, G. Mishima, Y. Sumino		REFID=57096
ALBERTI	15	PRL 114 061802	A. Alberti <i>et al.</i>		REFID=56438
BENEKE	15	NP B891 42	M. Beneke <i>et al.</i>		REFID=56714
CHAKRABORTY	15	PR D91 054508	B. Chakraborty <i>et al.</i>	(HPQCD Collab.)	REFID=56729
COLQUHOUN	15	PR D91 074514	B. Colquhoun <i>et al.</i>	(HPQCD Collab.)	REFID=59979
DEHNADI	15	JHEP 1508 155	B. Dehnadi, A.H. Hoang, V. Mateu		REFID=56708
ABRAMOWICZ	14A	JHEP 1409 127	H. Abramowicz <i>et al.</i>	(ZEUS Collab.)	REFID=56011
AYALA	14A	JHEP 1409 045	C. Ayala, G. Cvetic, A. Pineda		REFID=56015
BERNARDONI	14	PL B730 171	F. Bernardoni <i>et al.</i>	(ALPHA Collab.)	REFID=56072
PENIN	14	JHEP 1404 120	A.A. Penin, N. Zerf		REFID=55981
LEE	13O	PR D87 074018	A.J. Lee <i>et al.</i>	(HPQCD Collab.)	REFID=55285
LUCHA	13	PR D88 056011	W. Lucha, D. Melikhov, S. Simula	(VIEN, MOSU+)	REFID=55548
NARISON	13	PL B718 1321	S. Narison	(MONP)	REFID=54845
NARISON	13A	PL B721 269	S. Narison	(MONP)	REFID=55340
BODENSTEIN	12	PR D85 034003	S. Bodenstein <i>et al.</i>	(CAPE, VALE, MAINZ+)	REFID=54071
DIMOPOUL...	12	JHEP 1201 046	P. Dimopoulos <i>et al.</i>	(ETM Collab.)	REFID=54040
HOANG	12	JHEP 1210 188	A.H. Hoang, P. Ruiz-Femenia, M. Stahlhofen	(WIEN+)	REFID=54818
NARISON	12	PL B707 259	S. Narison	(MONP)	REFID=54030
NARISON	12A	PL B706 412	S. Narison	(MONP)	REFID=53887
LASCHKA	11	PR D83 094002	A. Laschka, N. Kaiser, W. Weise		REFID=16545
AUBERT	10A	PR D81 032003	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=53198
MCNEILE	10	PR D82 034512	C. McNeile <i>et al.</i>	(HPQCD Collab.)	REFID=53407
NARISON	10	PL B693 559	S. Narison	(MONP)	REFID=53258
Also		PL B705 544 (errat.)	S. Narison	(MONP)	REFID=53886
CHETYRKIN	09	PR D80 074010	K.G. Chetyrkin <i>et al.</i>	(KARL, BNL)	REFID=53069
ABDALLAH	08D	EPJ C55 525	J. Abdallah <i>et al.</i>	(DELPHI Collab.)	REFID=52482
GUAZZINI	08	JHEP 0801 076	D. Guazzini, R. Sommer, N. Tantalo		REFID=53255

SCHWANDA	08	PR D78 032016	C. Schwanda <i>et al.</i>	(BELLE Collab.)	REFID=52422
DELLA-MOR...	07	JHEP 0701 007	M. Della Morte <i>et al.</i>		REFID=51767
KUHN	07	NP B778 192	J.H. Kuhn, M. Steinhauser, C. Sturm		REFID=51771
ABDALLAH	06D	EPJ C46 569	J. Abdallah <i>et al.</i>	(DELPHI Collab.)	REFID=51226
BOUGHEZAL	06	PR D74 074006	R. Boughezal, M. Czakon, T. Schutzmeier		REFID=51476
BUCHMUEL...	06	PR D73 073008	O.L. Buchmuller, H.U. Flacher	(RHBL)	REFID=52217
PINEDA	06	PR D73 111501	A. Pineda, A. Signer		REFID=51309
GRAY	05	PR D72 094507	A. Gray <i>et al.</i>	(HPQCD and UKQCD Collab.)	REFID=50947
AUBERT	04X	PRL 93 011803	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=49991
BAUER	04	PR D70 094017	C. Bauer <i>et al.</i>		REFID=50494
HOANG	04	PL B594 127	A.H. Hoang, M. Jamin		REFID=50106
MCNEILE	04	PL B600 77	C. McNeile, C. Michael, G. Thompson	(UKQCD Collab.)	REFID=50130
BAUER	03	PR D67 054012	C.W. Bauer <i>et al.</i>		REFID=49340
BORDES	03	PL B562 81	J. Bordes, J. Penarrocha, K. Schilcher		REFID=49446
CORCELLA	03	PL B554 133	G. Corcella, A.H. Hoang		REFID=49362
DEDIVITIS	03	NP B675 309	G.M. de Divitiis <i>et al.</i>		REFID=50029
EIDEMULLER	03	PR D67 113002	M. Eidemuller		REFID=49496
ERLER	03	PL B558 125	J. Erler, M. Luo		REFID=49259
MAHMOOD	03	PR D67 072001	A.H. Mahmood <i>et al.</i>	(CLEO Collab.)	REFID=49211
BRAMBILLA	02	PR D65 034001	N. Brambilla, Y. Sumino, A. Vairo		REFID=51730
PENIN	02	PL B538 335	A. Penin, M. Steinhauser		REFID=48951