

MICHAEL GRONAU

Id no. 8176091

Personal:

- Date and Place of Birth: 16.2.1940, Tel-Aviv.
- Family Status: Married, three children, eight grandchildren.
- Military Service: 1964–1966.

Academic degrees

- M.Sc. in Physics: 1964, The Hebrew University, Jerusalem, Israel.
M.Sc. Thesis: “Nuclear Masses in the Shell Model”, supervised by N. Zeldes, 1964.
- Ph.D. in Physics: 1970, Tel-Aviv University, Tel Aviv, Israel.
Ph.D. Thesis: “CP Violation in Particle Physics”, supervised by Y. Ne’eman, 1970.

Awards & honors

- 1959, 1960, 1961, 1962, 1963: Awards for distinction, Hebrew U.
- 1968: Shenkar excellency award for Ph.D. studies, Tel-Aviv U.
- 1969: S. Goldhaber excellency award for Ph.D. studies, Tel-Aviv U.
- 2000: The Henry Taub Prize for Excellence in research, Technion.
- Distinguished Visiting Professor, Enrico Fermi Institute, Chicago University (2008).
- Fellow of the American Physical Society, cited for ”incisive contributions regarding tests of the Kobayashi-Maskawa theory of CP violation and searches for new physics in the decays of particles containing heavy quarks”.

Positions held

- Technion, Physics Department, 1972–2013: Professor (Emeritus since 10/2008).
- University of Chicago, Enrico Fermi Institute: Visiting Professor, March – July 1998, April – July 2003, April – August 2008.
- CERN, Geneva: Corresponding associate: July – Sep. 1989, July–Oct. 1997, Scientific associate: Oct. 2002 – March 2003.
- Caltech: Visiting Professor, Feb. – May 1992, Nov. 1997–Feb. 1998.
- SLAC, Stanford University: Visiting Professor, June – Sep. 1984, June – Sep. 1992, Aug. – Sept. 1998, Aug. – Sept. 2003, October 2007 – March 2008.
- Max-Planck Inst., Munich: Visiting Professor, Feb. – June 1989.
- Syracuse University: Visiting Professor, Sep. 1983 – May 1984.
- University of CA, Berkeley: Visiting Scientist, June – Sep. 1979.
- Carnegie-Mellon University: Visiting Scientist, Sep. 1978 – May 1979.
- Caltech, Physics Dept.: Research Fellow, Sep. 1970 – Aug. 1972.
- Tel-Aviv University, Physics Dept.: Research Assistant, 1966–1970.

Short-term summer appointments as visiting scientist

- SLAC, Stanford University: 1971, 1982, 1987, 1995, 1999, 2001, 2005, 2006.
- CERN, Geneva: 1972, 1985, 1994, 1996 (winter), 2000, 2007, 2009, 2011, 2012, 2013, 2015, 2017, 2018.
- University of Chicago: 1987, 2000, 2010.

- Fermilab, Batavia: 1971, 1979, 1982, 1998.
- Aspen Center for Physics: 1983, 1988, 1990, 1993 (Snowmass), 1995, 2001, 2003, 2011.
- Brookhaven National Laboratory: 1996.
- University of Montreal: 1993.
- University of Zurich: 2002, 2004.
- Max-planck Institute, Munich: 1977, 1981.
- Bern University, Bern: 1981.
- RWTH Aachen: 1978.
- DESY, Hamburg: 1974, 1975, 1976, 1990.
- Rutherford H.E. Lab., Oxfordshire: 1976.
- Niels Bohr Institute, Copenhagen: 1975.

Teaching experience

- Undergraduate courses in physics at the Technion (1972–2007):
 Physics for students of architecture, physics I (Mechanics), physics III (modern physics), classical mechanics, quantum mechanics I, quantum mechanics II, advanced quantum mechanics III, quantum mechanics for teachers of sciences, introduction to particle physics, group theoretical methods in physics.
- Graduate Courses in physics at the Technion (1972–2001):
 Gauge theories of particle physics, weak interactions, algebraic methods in particle physics, selected topics in particle physics.

- Graduate course at Caltech (1992): Group theory in physics.
- Tutorials for undergraduate and graduate physics courses at Tel-Aviv University (1966-1970).

Thesis supervisor of graduate students:

- R. Yahalom, M.Sc. Thesis, 1979-1981, “Masses and Mixing Angles in the Glashow-Weinberg-Salam $SU(2)_L \times U(1)$ Theory with S_3 as a Horizontal Symmetry Group”.
- R. Yahalom, Ph.D. Thesis, 1981-1984, “Quark and Lepton Masses and Horizontal Symmetries in Unified Field Theories”.
- A. Kfir, M.Sc. Thesis, 1985-1987, “Models of CP Violation”.
- E. Zaarur, M.Sc. Thesis, 1987-1989, “Fermion Masses and CP-Violation Beyond the Standard Model”.
- G. Paz, M.Sc. Thesis, 2000-2001, “Selected Topics in CP Violation and Heavy Quarks”.
- N. Shuhmaher, M.Sc. Thesis, 2003-2004, “Probing fundamental physics using B decays”.
- Replacing principal supervisors who were on sabbatical:
 - A. Davidson, M.Sc., 1973, replacing Prof. A. Dar.
 - H. Livneh, M.Sc., 1985, replacing Prof. G. Eilam.
 - T. Reisin, M.Sc., 1986, replacing Prof. M. Moshe.
 - O. Eyal, Ph.D., 1986–1987, replacing Prof. M. Moshe.
 - I. Baum, M. Sc., 2004–2005, replacing Prof. G. Eilam.
 - A. Kadosh, M. Sc., 2005, replacing late Prof. P. Singer.

Administrative posts and membership in Technion committees

- Member of the Technion Committee for Re-evaluation of the Basic Studies at the Faculty of Architecture (1987 – 1989).
- Member of the Technion Review Committee for the Harvey Prize (1998–1999).
- Member of the Technion Preparatory Committee for faculty promotion at the Technion (2001–2002).
- Member of the Technion Preparatory Committee for Honor Degrees (2004–2007).

National scientific committees:

- National Committee for Evaluation of Research Proposals in High Energy Physics at the Israel Science Foundation, 1993–1994, 2006–2007.
- Israel National Committee for High Energies at the Israel Academy of Sciences and Humanities, 1996–2009.

Referee for scientific journals (since 1975):

- Physical Review Letters.
- Physical Review D.
- Physics Letters B.
- Journal of High Energy Physics.
- Eur. Journal Physics C.

Research experience

- Research in theoretical nuclear physics: M.Sc. Thesis.
- Research in theoretical high energy and elementary particle physics: Since 1966, see above positions and appointments.

Research grants (external), since 1986:

- Israel-Austria Binational grant from the Austrian National Bank, with G. Ecker, University of Vienna, 1986–1988.
- Israel-Germany Binational grant from the Ministry of Science, Niedersachsen, W. Germany (Technion and University of Hannover) with G. Eilam, Technion and W. Buchmueller, N. Dragon, University of Hannover, 1987–1988.
- German – Israeli Foundation for Research and Development (GIF):
 - with G. Eilam, Technion and W. Buchmuller, DESY, Hamburg, 1992–1995.
 - with M. Beneke, RWTH Aachen, 2005–2007.
- Israel Science Foundation, The Israel Academy of Science and Humanities, with G. Eilam, 1995–1998, 1999–2003, 2004–2007.
- United States-Israel Binational Science Foundation (BSF) Jerusalem:
 - with J. Rosner, University of Chicago and J. Schechter, University of Syracuse, 1986–1990.
 - with G. Eilam, Technion, J. Rosner, University of Chicago, W. Marciano and A. Soni, Brookhaven National Laboratory, 1991–1994.
 - with G. Eilam, Technion, J. Rosner, University of Chicago, A. Soni, Brookhaven National Laboratory, 1995–1998, 1999–2002.

Referee for research grants (since 1976):

- GIF: Israel-Germany Binational Science Foundation.
- BSF: United States-Israel Binational Science Foundation.
- ISF: Israel Science Foundation, The Israel Academy of Science and Humanities.
- NSF: National Science Foundation, USA.
- PPARC: The United Kingdom Strategic Science Investment Agency.

International scientific committees:

- Member of the International Advisory Committee for the First International Symposium on the Fourth Family of Quarks and Leptons, Santa Monica, CA, Feb. 1987.
- Member of the Local Organizing Committee for the International Workshop on Weak Interactions, Ginosar, Israel, April, 1989.
- Member of the International Advisory Committee for the Aspen Winter Conference in High Energy Physics, January 1993.
- Member of the International Advisory Committee for the Aspen Winter Conference in High Energy Physics, January 1994.
- Member of the Local Organizing Committee of Neutrino 94, XVI International Conference on Neutrino Physics and Astrophysics, Eilat, Israel, May 29 – June 3, 1994.
- Chairman of the International Workshop on CP Violation, Technion, Haifa, June 7–9, 1994.
- Member of the Local Organizing Committee of the International Workshop on Heavy Flavor Physics, Technion, Haifa, December 26–29, 1995.

- Member of the International Advisory Committee for Beauty '96, Fourth International Workshop on B Physics at Hadron Machines, Rome, June 17–21, 1996.
- Member of the International Advisory Committee for the Second International Conference on B Physics and CP Violation, Honolulu, Hawaii, March 24–28, 1997.
- Member of the International Advisory Committee for Beauty '97, Fifth International Workshop on B Physics at Hadron Machines, UCLA, Los Angeles, October 13–17, 1997.
- Convenor of a Parallel Session at the International Europhysics Conference on High Energy Physics, Jerusalem, August 19–26, 1997.
- Member of the International Advisory Committee for the International Conference on Kaon Physics, Kaon '99, Chicago, June 21–26, 1999.
- Member of the International Advisory Committee for Beauty '99, Sixth International Workshop on B Physics at Hadron Machines, Bled, June 21–25, 1999.
- Member of the International Advisory Committee for the Third International Conference on B Physics and CP Violation, Taipei, Taiwan, December 3–7, 1999.
- Member of the International Advisory Committee for Beauty 2000, Seventh International Workshop on B Physics at Hadron Machines, Kibutz Ma'agan, Israel, September 2000.
- Member of the International Advisory Committee for the Fourth International Conference on B Physics and CP Violation, Ise-Shima, Japan, February 19–23, 2001.

- Member of the International Advisory Committee for FPCP2002, the First International Conference on Flavor Physics and CP Violation, Philadelphia, PA, USA, May 16–18, 2002.
- Member of the International Advisory Committee for Beauty 2002, the Eighth International Workshop on B Physics at Hadron Machines, Santiago de Compostela, Spain, 17–21 Jun 2002.
- Member of the International Advisory Committee for FPCP2003, the Second International Conference on Flavor Physics and CP Violation, Paris, France, June 3–6, 2003.
- Member of the International Advisory Committee for Beauty 2003, the Ninth International Conference on *B* Physics at Hadron Machines, Carnegie-Mellon University, Pittsburgh, PA, October 14–18 2003.
- Member of the International Advisory Committee for FPCP2004, the Third International Conference on Flavor Physics and CP Violation, Daegu, S. Korea, October 4–9, 2004.
- Member of the International Advisory Committee for CKM 2005, the Third International Workshop on the Unitarity Triangle, San Diego, CA, March 15–18, 2005.
- Member of the International Advisory Committee for Beauty 2005, the Tenth International Conference on *B* Physics at Hadron Machines, Assisi, Italy, June 20–24, 2005.
- Member of the International Advisory Committee for FPCP2006, the Fourth International Conference on Flavor Physics and CP Violation, Vancouver, B.C., Canada, April 9–12, 2006.
- Member of the International Advisory Committee for Beauty 2006, 11th International Conference on *B* Physics at Hadron Machines, Oxford, United Kingdom, September 25–29, 2006.

- Member of the International Advisory Committee for FPCP2007, the Fifth International Conference on Flavor Physics and CP Violation, Bled, Slovenia, May 12–16, 2007.
- Member of the International Advisory Committee for FPCP2008, the Sixth International Conference on Flavor Physics and CP Violation, Taipei, Taiwan, May 5–8 2008.
- Member of the International Advisory Committee for FPCP2009, the Seventh International Conference on Flavor Physics and CP Violation, Lake Placid, New York, May 27–June 1 2009.
- Member of the International Advisory Committee for Beauty 2009, Twelveth International Conference on B Physics at Hadron Machines, Heidelberg, September 7–11, 2009.
- Member of the International Advisory Committee for FPCP2010, the Eighth International Conference on Flavor Physics and CP Violation, Turin, Italy, May 25–29 May, 2010.
- Member of the International Advisory Committee for Beauty 2011, Thirteenth International Conference on B Physics at Hadron Machines, Amsterdam, April 4–8, 2011.
- Member of the International Advisory Committee for FPCP2011, the Ninth International Conference on Flavor Physics and CP Violation, Maale Hachamisha, Israel, May 21–26, 2011.
- Member of the International Advisory Committee for FPCP2012, the Tenth International Conference on Flavor Physics and CP Violation, Hefei, China, May 21–25, 2012.
- Member of the International Advisory Committee for the Seventh Workshop on the CKM Unitarity Triangle, Cincinnati, Ohio, September 28–October 2, 2012.

- Member of the International Advisory Committee for Beauty 2013, Fourteenth International Conference on *B* Physics at Hadron Machines, Bologna, Italy April 8–12, 2013.
- Member of the International Advisory Committee for FPCP2013, the Eleventh International Conference on Flavor Physics and CP Violation, Buzios, Brazil, May 20–24, 2013.
- Member of the International Advisory Committee for FPCP2014, the Twelveth International Conference on Flavor Physics and CP Violation, Marseilles, France May 25–30, 2014.
- Members of the International Advisory Committee of the XXXth International Workshop on High Energy Physics, Particle and Astroparticle Physics, Gravitation and Cosmology, Protvino, Moscow region, Russian Federation, June 23–27, 2014.
- Member of the International Advisory Committee for the Eighteenth Workshop on the CKM Unitarity Triangle, Vienna, Austria, September 8–12, 2014.
- Member of the International Advisory Committee for FPCP2015, the Thirteenth International Conference on Flavor Physics and CP Violation, Nagoya, Japan, May 25–29, 2015.

List of publications: papers published in scientific journals

1. N. Zeldes, M. Gronau and A. Lev, Shell-Model semi-empirical Nuclear Masses, *Nucl. Phys.* **63**, 1–75 (1965).
2. M. Gronau, Relations between the CP-Violation Parameters in a Current-Current Model, *Lett. Nuov. Cim.* **1**, 30–32 (1969).
3. M. Gronau, CP-Violation in the nonleptonic Hyperon Decays in Current-Current Models, *Lett. Nuov. Cim.* **1**, 209–213 (1969).
4. M. Gronau, The Ratio η_{00}/η_{+-} in Current–Current Models, *Lett. Nuov. Cim.* **1**, 509–512 (1969).
5. M. Gronau, Some Difficulties with Oakes’ Theory of CP Violation, *Phys. Lett. B* **30**, 196–197 (1969).
6. M. Gronau and Y. Ne’eman, Consequences of Unitarity in some Models of CP-Violation, *Phys. Rev. D* **1**, 2190–2191 (1970).
7. M. Gronau, Hadronic Hyperon Decays in the symmetric Quark Model, *Phys. Rev. Lett.* **28**, 188–191 (1972).
8. M. Gronau, Nonleptonic Hyperon Decays in a Current-Current Quark Model, *Phys. Rev. D* **5**, 118–124 (1972).
9. M. Gronau, Testing the Parton Model in massive Lepton Pair Production, *Phys. Lett. B* **39**, 395–398 (1972).
10. C. G. Callan, M. Gronau, A. Pais, E. Paschos and S. Treiman, Light Cone Approach to Structure Function Inequalities, *Phys. Rev. D* **6**, 387–390 (1972).
11. M. Gronau and Y. Zarmi, Scaling in multi-triplet Quark Models, *Phys. Rev. D* **6**, 396–398 (1972).

12. M. Gronau, F. Ravndal and Y. Zarmi, Applications of the Quark Parton Model in One Particle inclusive leptonic induced Reactions, *Nucl. Phys. B* **51**, 611–627 (1973).
13. M. Gronau, Are the elementary Quark Couplings of the neutral Current either pure Vector or pure Axial-Vector? *Phys. Lett. B* **53**, 260–262 (1974).
14. M. Gronau, A Comment on Bounds on Neutrino to Antineutrino Ratios of neutral weak Cross Sections, *Lett. Nuov. Cim.* **14**, 204–206 (1975).
15. M. Gronau and N. Levy, Second Rank Interactions in inclusive muonless Neutrino Reactions, *Nucl. Phys. B* **97**, 513–521 (1975).
16. M. Gronau, Inclusive Pion Production by V and A neutral Currents in the Quark Parton Model, *Phys. Rev. D* **13**, 720–724 (1976).
17. M. Gronau, T.F. Walsh, Y. Zarmi and W.S. Lam, Jets in inclusive e^+e^- and Lepton production, *Nucl. Phys. B* **104**, 307–316 (1976).
18. M. Gronau, Azimuthal Asymmetry in heavy Lepton Production by polarized e^+e^- Beams, *Phys. Lett. B* **63**, 86–90 (1976).
19. M. Gronau and T.C. Yang, Parity Violation in heavy Lepton Production by longitudinally polarized e^+e^- Beams, *Phys. Rev. D* **15**, 639–643 (1977).
20. M. Gronau, C.H. Llewellyn Smith, T.F. Walsh, S. Wolfram and T.C. Yang, Lepton Energy Spectra in e^+e^- Annihilation and other Processes, *Nucl. Phys. B* **123**, 47–60 (1977).
21. M. Gronau and Y. Zarmi, How to measure the transverse Momentum of Partons? *Phys. Rev. D* **18**, 2341–2344 (1978).
22. N. Deshpande, M. Gronau and D. Sutherland, Final State Gluon Effects in charmed Meson Decays, *Phys. Lett. B* **90**, 431–435 (1980).

23. G. Eilam and M. Gronau, Exclusive and inclusive non-leptonic Decays of charmed Mesons, *Phys. Lett. B* **96**, 391–396 (1981).
24. M. Gronau and R. Yahalom, Ambiguities in Zeroth Order Fermion Mass Matrices, *Phys. Lett. B* **98**, 441–443 (1981).
25. M. Gronau and D. Sutherland, Soft gluonic Effects in nonleptonic Decays, *Nucl. Phys. B* **183**, 367–383 (1981).
26. M. Gronau, J.H. Kuhn and S. Nussinov, B Meson Decays at the $\Upsilon(4S)$, *Phys. Rev. D* **25**, 3100–3102 (1982).
27. M. Gronau, Limits on the Mixing of heavy decaying Neutrinos, *Phys. Rev. D* **28**, 2762–2766 (1983).
28. M. Gronau and R. Yahalom, Low-mass right-handed Neutrinos in the left-right symmetric theory, *Nucl. Phys. B* **236**, 233–254 (1984).
29. M. Gronau, C.N. Leung and J.L. Rosner, Extending Limits on neutral heavy Leptons, *Phys. Rev. D* **29**, 2539–2558 (1984).
30. M. Gronau and J.L. Rosner, Events with Jet and Missing-Energy as Pairs of new neutral Leptons, *Phys. Lett. B* **147**, 217–221 (1984).
31. M. Gronau and R. Yahalom, Difficulties with Evasion of a cosmological Limit on massive Neutrinos, *Phys. Rev. D* **30**, 2422–2423 (1984).
32. M. Gronau and J. Schechter, Constraints on the Mixing of a fourth family of Quarks, *Phys. Rev. D* **31**, 1668–1675 (1985).
33. M. Gronau and J. Schechter, A physical CP Phase and maximal CP Violation, *Phys. Rev. Lett.* **54**, 385–388 (1985).
34. M. Gronau, R. Johnson and J. Schechter, Model for maximal CP Non-conservation, *Phys. Rev. Lett.* **54**, 2176–2179 (1985).

35. M. Gronau, R. Johnson and J. Schechter, On Parametrizing the N-Generation Quark Mixing Matrix, *Phys. Rev. D* **32**, 3062–3065 (1985).
36. R. Johnson, J. Schechter and M. Gronau, Prediction of the Four Generation Kobayashi-Maskawa Matrix, *Phys. Rev. D* **33**, 2641–2652 (1986).
37. M. Gronau and R. N. Mohapatra, Maximal spontaneous CP-Violation and left-right Symmetry, *Phys. Lett. B* **168**, 248–252 (1986).
38. J. Bernabeu, G. Branco and M. Gronau, CP Restrictions on Quark Mass Matrices, *Phys. Lett. B* **169**, 243–247 (1986).
39. M. Gronau, A.Kfir and R. Loewy, Basis-independent Tests of CP-Nonconservation in Fermion Mass Matrices, *Phys. Rev. Lett.* **56**, 1538–1541 (1986).
40. M. Gronau, V. Gupta, R. Johnson and J. Schechter, CP Violation and Generation Mixing, *Phys. Rev. D* **33**, 3368–3373 (1986).
41. G. Ecker, W. Grimus and M. Gronau, A Model of massive Neutrinos with a conserved Lepton Number, *Nucl. Phys. B* **279**, 429–451 (1987).
42. M. Gronau, A. Kfir, G. Ecker, W. Grimus and H. Neufeld, Do Flavor Conservation and spontaneous CP Violation lead to a real KM Matrix? *Phys. Rev. (Rapid Communication) D* **37**, 250–252 (1988).
43. M. Gronau and J.L. Rosner, Charmless B Decays involving Baryons, *Phys. Rev. D* **37**, 688–696 (1988).
44. M. Gronau and A. Kfir, Can CP Violation in the Quark Mixing Matrix start at Order G^3 ? *Phys. Rev. D* **37**, 1334–1337 (1988).
45. M. Gronau, R. Johnson, S. Ranfone and J. Schechter, Re-examining the Fritzsche-Stech $SO(10)$ Model of Quarks and Leptons, *Phys. Rev. D* **37**, 2597–2604 (1988).

46. M. Gronau, R. Johnson and J. Schechter, Can a Four Generation Fritsch Model with a light top Quark explain the $B^0 - \bar{B}^0$ Mixing? *Phys. Lett. B* **201**, 151–154 (1988).
47. G. Eilam and M. Gronau, Loop-induced Charmless B decays and $B^0 - \bar{B}^0$ Mixing, *Phys. Rev. Lett.* **61**, 286–289 (1988).
48. M. Gronau and R. Loewy, A Comment on Jarlskog’s Conditions for CP Invariance, *Phys. Rev. D* **39**, 986–987 (1989).
49. G. Eilam, M. Gronau and J. L. Rosner, CP Asymmetries in charmless baryonic Decays of charged B mesons, *Phys. Rev. D* **39**, 819–824 (1989).
50. M. Gronau, R. Johnson and J. Schechter, $B^0 - \bar{B}^0$ mixing and a two Scalar Doublet Model predicting a Fritsch Structure, *Phys. Rev. D* **39**, 1913–1921 (1989).
51. W. Buchmuller and M. Gronau, Flavor Changing Z Decays, *Phys. Lett. B* **220**, 641–645 (1989).
52. M. Gronau, CP Violation in Neutral B Decays to CP-Eigenstates, *Phys. Rev. Lett.* **63**, 1451–1454 (1989).
53. M. Gronau, On the Origin of Time-dependent CP Asymmetries in Neutral B Decays, *Phys. Lett. B* **233**, 479–484 (1989).
54. M. Gronau and D. London, Isospin Analysis of CP Asymmetries in B Decays, *Phys. Rev. Lett.* **65**, 3381–3385 (1990).
55. M. Gronau and D. London, How to Determine all the angles of the Unitarity Triangle from $B_d \rightarrow DK$ and $B_d \rightarrow D\phi$?, *Phys. Lett. B* **253**, 483–488 (1991).

56. M. Gronau, Elimination of Penguin Contributions to CP Asymmetries in B Decays through Isospin Analysis, *Phys. Lett. B* **265**, 389–395 (1991).
57. M. Gronau and D. Wyler, On Determining a Weak Phase from CP Asymmetries in Charged B Decays, *Phys. Lett. B* **265**, 172–176 (1991).
58. M. Gronau and S. Wakaizumi, Does the b Quark Decay Left-handedly? *Phys. Rev. Lett.* **68**, 1814–1817 (1992).
59. M. Gronau and S. Wakaizumi, Testing the Chirality of b to c Coupling in $B \rightarrow D^* \ell \nu$, *Phys. Lett. B* **280**, 79–84 (1992).
60. M. Gronau, CP Violation in a Model of Right-Handed b Decays, *Phys. Lett. B* **288**, 90–94 (1992).
61. M. Gronau and S. Wakaizumi, On Testing V-A in Λ_b Decays, *Phys. Rev. D* **47**, 1262–1263 (1993).
62. M. Gronau, Large Penguin Effects in the CP asymmetry of $B_d \rightarrow \pi\pi$, *Phys. Lett. B* **300**, 163–168 (1993).
63. M. Gronau, A. Nippe and J.L. Rosner, Method for Flavor Tagging in Neutral B Meson Decays, *Phys. Rev. D* **47**, 1988–1993 (1993).
64. M. Gronau, T. Hasuike, T. Hattori, Z. Hioki, T. Hayashi and S. Wakaizumi, Measuring the Chirality of the b Quark Current in Λ_b Decay, *J. Phys. G* **19**, 1987–1992 (1993).
65. M. Gronau and J. L. Rosner, Identification of Neutral B Mesons using correlated Hadrons, *Phys. Rev. D* **49**, 254–264 (1994).
66. M. Gronau and J. L. Rosner, Framework for Identification of Neutral B Mesons, *Phys. Rev. Lett.* **72**, 195–198 (1994).

- 67. M. Gronau, J. L. Rosner and D. London, Weak Coupling Phase from Decays of Charged B Mesons to πK and $\pi\pi$, *Phys. Rev. Lett.* **73**, 21–24 (1994).
- 68. O. F. Hernández, D. London, M. Gronau and J. L. Rosner, Measuring Strong and Weak Phases in Time-independent B Decays, *Phys. Lett. B* **333**, 500–506 (1994).
- 69. M. Gronau, O. F. Hernández, D. London and J. L. Rosner, Decays of B Mesons to two light Pseudoscalars, *Phys. Rev. D* **50**, 4529–4543 (1994).
- 70. D. Atwood, G. Eilam, M. Gronau and A. Soni, Enhancement of CP Violation in $B^\pm \rightarrow K_i^\pm D^0$ by Resonance Effects, *Phys. Lett. B* **341**, 372–378 (1995).
- 71. G. Eilam, M. Gronau and R. R. Mendel, Large CP Asymmetries in $B^\pm \rightarrow \eta_c(\chi_c)\pi^\pm$ from $\eta_c(\chi_c)$ Width, *Phys. Rev. Lett.* **74**, 4984–4987 (1995).
- 72. M. Gronau, O. Hernández, D. London and J.L. Rosner, Decays of B Mesons to two Pseudoscalars in broken $SU(3)$, *Phys. Rev. D* **52**, 6356–6373 (1995).
- 73. M. Gronau, O. Hernández, D. London and J.L. Rosner, Electroweak Penguins and two-body B Decays, *Phys. Rev. D* **52**, 6374–6382 (1995).
- 74. M. Gronau and J. L. Rosner, Determining the Weak Phase γ from charged B Decays, *Phys. Rev. D* **53**, 2516–2522 (1996).
- 75. A.S. Dighe, M. Gronau and J. L. Rosner, Amplitude Relations for B Decays involving η and η' , *Phys. Lett. B* **367**, 357–361 (1996).

76. M. Gronau and J. L. Rosner, Determining the CKM Unitarity Triangle from B Decays to Charged Pions and Kaons, *Phys. Rev. Lett.* **76**, 1200–1203 (1996).
77. M. Gronau and J.L. Rosner, V_{td} from Hadronic Two-body B Decays, *Phys Lett. B* **376**, 205–211 (1996).
78. A. S. Dighe, M. Gronau and J. L. Rosner, Weak Phases from B Decays to Kaons and Charged Pions, *Phys. Rev. D* **54**, 3309–3316 (1996).
79. M. Gronau and D. London, New Physics in CP Asymmetries and Rare B Decays, *Phys. Rev. D* **55**, 2845–2861 (1997).
80. B. Blok, M. Gronau and J.L. Rosner, Annihilation, Rescattering, and CP Asymmetries in B Meson Decays, *Phys. Rev. Lett.* **78**, 3999–4002 (1997).
81. D. Atwood, M. Gronau, and A. Soni, Mixing-induced CP Asymmetries in Radiative B Decays in and beyond the Standard Model, *Phys. Rev. Lett.* **79**, 185–188 (1997).
82. B. Blok, M. Gronau and J. L. Rosner, Reply to Soares' Comment, *Phys. Rev. Lett.* **79**, 1167 (1997).
83. A.S. Dighe, M. Gronau and J.L. Rosner, B Decays involving η and η' in the Light of the $B \rightarrow K\eta'$ Process, *Phys. Rev. Lett.* **79**, 4333–4336 (1997).
84. M. Gronau and J. L. Rosner, B Decays to Charmless V P Final States, *Phys. Rev. D* **57**, 1783–1789 (1998).
85. M. Gronau and J. L. Rosner, Weak Phase γ from Ratio of $B \rightarrow K\pi$ Rates, *Phys. Rev. D* **57**, 6843–6850 (1998).
86. M. Gronau, Weak Phase γ from Color-Allowed $B \rightarrow DK$ Rates, *Phys. Rev. D* **58**, 037301: 1–4 (1998).

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