



Dr R.C.Verma (CV)

Professor Emeritus (2014-), Dept. of Physics, Panjab University, Chandigarh

Date of Birth: 18/10/1953 Sex: Male

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Education (Throughout First Class)

M.Sc. (Honours) 1974 **Panjab University, Chandigarh**

Ph.D. (High Energy Physics: Theory) 1978 **Panjab University, Chandigarh**

Academic Experience

INSTITUTION	Position	Period	Nature of Work
Punjabi University, Patiala	Professor of Physics	1995-2013	Teaching & Research
Himachal Pradesh University, Shimla	Reader in Physics	1990-92	Teaching & Research
Panjab University, Chandigarh	Reader/Lecturer in Physics	1984-95	Teaching & Research
Kumaun University Nainital	Lecturer in Physics	1981-84	Teaching & Research
University of Alberta, Edmonton, (Canada)	Post Doctoral Fellow	1979-81	Research
Panjab University Chandigarh	CSIR Research Fellow	1974-79	Research

Awards and Achievements

- **Hari Ohm Ashram Prerit - National Research Award** – 1994
- Short Listed for Satya Murty IPA Research Award – 1987
- **President**, Regional Council of Indian Ass. of Physics Teachers – 2004-06, 2010-12.
- Selected for *Marquis Who's Who in the World (U.S.A.)* – 2008, 2012.
- Selected for Asian/American Who's Who (India) -2008, 2011.
- Selected for Eminent Personalities of 20th Century- Int. Bio. Res. Acad-2000.
- Selected for *Dictionary of International Biography (UK)* – 1997

Administrative Experience (Punjabi University)

- **Director**, Planning and Monitoring – (2003 - 04).
- **Dean, Physical Sciences** - (2008 - 10).
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- **Head**, Physics Department - (2004 - 05).
- **Coordinator, SAP & Centre of Advance Study** in Physics (2004 - 13).
- **Coordinator, FIST (DST- Govt.of India)** in Physics Dept. (2011 - 13).
- Member, Syndicate - (2008 - 10).
- Member, Senate - (2008 - 10).
- Chairman, Academic & Admin. Audit Committee (2008 - 10).
- Member College Development Council (2008 - 10)

Research Collaborations & Academic Visits Abroad

- **University of Alberta**, Edmonton, **Canada** (1979 - 81, 1986, 1990, 1991, 1995)
- University of Wisconsin, Madison, **USA** (1980)
- Simon Fraser University, Vancouver, **Canada** (1986)
- Lawrence Berkeley Lab., Berkeley, **USA** (1986)
- Technion Inst. Tech., Haifa, **Israel** (1989)
- I.C.T.P., Trieste, **Italy** (1995)
- Addis Ababa University, Addis Ababa, **Ethiopia** (2003)
- Inst. of Physics, **Academia Sinica**, Taipei, **Taiwan** (2005, 2007-08, 2010-11, 2013, 2015)
- National Tsing-Hua University, Hsinchu, **Taiwan** (2005-06) - **NCTS Fellow**
- **CERN**, Geneva, **Switzerland** (2008)
- Yonsei University, Seoul, **S. Korea** (2013)
- **KEK**, Tsukuba, **Japan** (2014)

Research Work

In my research work on the weak decays of heavy quark hadrons, I have explored missing physics by discovering new phenomena in order to bridge the existing gap between theory and experiment. Employing the constituent quark model, flavour symmetries and factorization scheme etc., I have *developed models* to study their decays. Discovery of these heavy flavour hadrons began a new era in the development of the field of High Energy Physics. Significance of my work lies in probing the interplay of weak and less understood strong interactions in this development. I have published over **120 research papers** in reputed journals of Physics, delivered talks at over **100 International and National conferences and symposia**, etc. My *investigations would be useful to decipher the relative strengths of competing weak quark-level processes*, and thus act as guide to experimental searches, particularly in the high statistics experiments with future machines such as tau-charm and bottom meson factories.

Research Projects

- **Gluonic Effects on Hadronic Behavior**, *UGC Research Project* (1982-84)
- **Phenomenology of Heavy Quark Physics**, *DST Research Project* (1997-01)
- **Phenomenological Studies of Heavy Flavour Physics**, *CSIR Research Project*: (2002 – 05)
- **Preparation of Silicon Sheet by Capillary Action Shaping Technique (CAST) for Solar Cell Applications**, *DST Research Project* (2008-13)

Research Supervision: Ph.D. : 8, M. Phil : 8

Teaching Work

I have taught **Particle Physics, Quantum Mechanics, Group Theory, Computer Simulation in Physics, Electrodynamics, General Relativity, Classical Mechanics and History & Philosophy of Physics** at Post Graduate level.

Besides the regular teaching work, I have initiated and actively participated in introducing the subject of **Computer Simulation in Physics** at the Post Graduate level during my stay at H.P. University, Panjab University and Punjabi University. For this purpose, I have developed special software and prepared **9 books** and several articles on teaching the new subject in theory as well as in Laboratory Practice. I have presented these efforts at a large number of Refresher courses held at different universities.

Languages Fluent in English, Hindi and Punjabi
Computing **Programming:** Mathematica, Fortran, VB, C, C++, Java
IT: MS-Windows, MS-Office, Linux, Latex

Interests

Pursued **interests in philosophy and history of sciences** as hobby, and have *published over 30 General articles in this area.*

■ Dr R.C.Verma (Profile)

Academic VISITS ABROAD

S.No.	Institution	Period	Purpose
20.	Academia Sinica Taipei, (Taiwan)	Mar. 2015 – Ap. 2015	<i>Visiting Fellow</i>
19.	KEK (Theory Div.), Tsukuba (Japan)	Nov. 2014 – Dec. 2014	<i>Visiting Scientist</i>
18.	Yonsei University Seoul, (S. Korea)	June 2013	<i>Visiting Scientist</i>
17.	Academia Sinica Taipei, (Taiwan)	Ap. 2013 – May 2013	<i>Visiting Fellow</i>
16.	Academia Sinica Taipei, (Taiwan)	Nov. 2010 – Feb. 2011	<i>Visiting Fellow</i>
15.	CERN Geneva (Switzerland)	June 2008	<i>Visiting Scientist</i>
14.	Academia Sinica Taipei, (Taiwan)	Oct. – Dec. 2007	<i>Visiting Fellow</i>
13.	National Center of Theoretical Sciences Hsinchu, (Taiwan)	July 2005 - Jan. 2006	<i>Visiting Scientist &</i> participated in International Conference on Flavor Physics.
12.	Academia Sinica Taipei, (Taiwan)	Ap-June 2005	<i>Visiting Scientist &</i> participated in International Workshop Particle Phys.Phenomenology
11.	Addis Ababa Univ. Addis Ababa (Ethiopia)	Oct. 2003	<i>Short Visit</i>
10.	I.C.T.P. Trieste (Italy)	May-July. 1995	<i>Visiting Scientist</i>
9.	University of Alberta Edmonton (Canada) Institute	Jan-Mar.1995	<i>Visiting Scientist &</i> Talk given at Lake Louise Winter
8.	University of Alberta Edmonton (Canada) Institute	Jan-Mar.1991	<i>Research Associate &</i> participated in Lake Louise Winter
7.	University of Alberta Edmonton (Canada) Institute	Jan-Jun.1990	<i>Research Associate &</i> Talk given at Lake Louise Winter
6.	Technion Inst. Tech. Haifa (Israel)	April 1989	Talk delivered in XII International Workshop on Weak Int. & Neutrinos

5. Simon Fraser University Vancouver (Canada)	July 1986	participated in NATO Advanced Workshop on Super Field Theories
4. Lawrence Berkeley Lab. Berkeley (U.S.A.)	July 1986	participated in XXIII International High Energy Physics Conference
3. University of Alberta Edmonton (Canada)	May-Aug.1986	<i>Research Associate</i>
2. University of Wisconsin Madison (U.S.A.)	July 1980	participated in XX International High Energy Physics Conference
1. University of Alberta Edmonton (Canada)	1979-81	<i>Post Doctoral Fellow.</i>

Books Published: -

- Introduction to Nuclear and Particle Physics
V.K. Mittal, R.C. Verma, & , S.C. Gupta, *Prentice Hall of India (3rd edition: 2013)*
- C for Computer Simulation in Physics (In Press)
R.C. Verma & Setul Verma, *Anamaya Pub.,N. Delhi (2011)*
- FORTRAN for Computational Physics
V.K. Mittal, R.C. Verma, & , S.C. Gupta, *Ane Books, N. Delhi (2008)*
- FORTRAN 77 :Programming and Applications
R.C. Verma, P.K. Ahluwalia & U.N. Khosla, *Allied Pub., N.Delhi (2006)*
- Computer Aid Instructions in Physics: Quantum Mechanics
V.K. Mittal, R.C. Verma, & S.C. Gupta, *Anamaya Pub., N. Delhi (2006)*
- Computer Simulation in Physics
R.C. Verma, *Anamaya Pub., N. Delhi (2005)*
- Computer Programming
R.C. Verma, V.K. Mittal, S.C. Gupta, *Vishal Pub., Jalandhur (2003)*
- Computational Physics: An Introduction
R.C. Verma, P.K.Ahluwalia & K.C Sharma, *New Age Pub. N.Delhi (1999)*
- Introduction to PCs, DOS & Computing with Applications
U.N.Khosla, P.K.Ahluwalia & R.C.Verma, *Allied Pub. N.Delhi (1998)*

Contributions in Computer Application: -

I have initiated and actively participated in introducing the subject of Computer ***Simulation in Physics*** and Computer Laboratory at the Post Graduate level at Himachal Pradesh University, Panjab University and Punjabi University, and several other universities in the region. Realising the need of producing resource material in this area, we have developed some *software* and written the following *books and articles* on teaching the new subject in theory as well as in Laboratory Practice.

Besides that, I have organised five **Workshops on Computer Laboratory Training in Physics, and Emerging Technologies** to provide hand-on training to college and university teachers to teach computer based courses in physics.

Physical Review D	= 42	Physics Letters B	= 3
Jl. of Physics G (Nucl.Phys.)	= 17	Progress of Theor. Physics	= 12
Zeit. Phys. C	= 8	Canadian Jl. of Physics	= 6
Pramana	= 9	Ind. Jl. Pure & App. Physics	= 10
Int. Jl. Mod. Phys.	= 3	Acta Physica Polonica	= 3
Lettere Nuovo Cimento	= 1	Euro. Phys. J. C	= 4
European Phys. Letters	= 1	Phys. Scr.	= 1
Adv. in High Energy Physics	= 1	Acta Ciencia Indica	= 2
Phys. Elem. Part. At. Nuclei Letts.	= 1		

In Chronological reverse order : -

124. Topological Diagram Analysis of Bottom Meson Decays emitting Two Pseudoscalar Mesons
Maninder Kaur, Rohit Dhir, Avinash Sharma and R.C. Verma
Physics of Elementary Particles & Atomic Nuclei, Letters, 12 (2015) 339.
123. Magnetic Moments of bottom baryons: Effective mass and screened charge
Rohit Dhir, C.S. Kim, & R.C. Verma
Phys. Rev. D 88 (2013) 094002
122. Effects of Flavor Dependence on Weak Decays of J/psi and Upsilon.
Rohit Dhir, R.C. Verma, & AC Sharma
Adv. High Energy Physics 2013 (2013) 706543
121. Decay constants and form factors of s-wave and p-wave mesons in the covariant light-front quark model (*hep-ph 1103.2973*)
R.C. Verma
J. Phys. G. 39 (2012) 025005
120. Decays of bottom mesons emitting tensor mesons in the final state using the Isgur-Scora-Grinstein-Wise II model
N.Sharma, R. Dhir and R.C. Verma
Phys. Rev. D 83 (2011) 014007
119. Preliminary Estimate of Branching Ratios of Weak Hadronic Decays of Bottom Baryons emitting Charmless Scalar Mesons
Arvind Sharma, R. Dhir and R.C. Verma
Euro. Phys.J. C. 71 (2011)1538
118. Exclusive Semileptonic Decays of Bc Meson.
Rohit Dhir and R.C. Verma
Phys. Scr. 82 (2010) 065101
117. Predictions of Bc meson emitting Pseudoscalar and heavy scalar mesons using ISGW –II model
Neelesh Sharma & R.C. Verma
Phys. Rev. D 82 (2010) 094014
116. Branching Ratios of Bc mesons decay to Pseudoscalar & Axial mesons.
Neelesh Sharma and R.C. Verma
J. Phys. G (2010) 37 (2010) 075013
115. Charm Changing Weak Hadronic Decays of Triplet (C=1) baryons emitting Axial-Vector Mesons incl. factorizable and Pole Contributions.
Arvind Sharma, and R.C. Verma
Phys. Rev. D 80 (2009) 094001
114. Magnetic Moments of (3/2+) heavy baryons using effective mass and screened charge scheme
Rohit Dhir and R.C. Verma
Eur. Phys. J. A. 42 (2009)243
113. Axial Vector Meson emitting Weak Nonleptonic Decays of b-Baryons
Arvind Sharma and R.C. Verma
Phys. Rev. D 79 (2009) 094023
112. Scalar Meson emitting Weak Hadronic Decays of 1/2+ Charm Baryons involving Factorization and pole contributions
Arvind Sharma and R.C. Verma
J. Phys. G 36 (2009) 075005

111. First Estimate of Axial-Vector Meson emitting Weak Nonleptonic Decays of Charm Baryons in the Factorization Scheme
Arvind Sharma and R.C. Verma **Phys. Rev. D** 79(2009) 037506
- 110 Bc Meson Form-factors and Bc \rightarrow PV Decays Involving Flavor Dependence of Transverse Quark Momentum.
Rohit Dhir, and R.C. Verma, **Phys. Rev. D** 79, 034004 (2009)
109. Flavor dependence of B/c+ meson form factors and B/c \rightarrow PP decays.
R.Dhir, N. Sharma and R.C. Verma **J.Phys.G** 35 (2008) 085002
108. Flavour Structure of Low-Energy Hadron Pair Photoproduction
K. Odagiri and R.C.Verma **Euro. J. Phys. C** 52 (2007) 159
107. Weak Hadronic Decays of Charm Mesons emitting Pseudoscalar and Axial mesons
Neelesh Sharma and R.C. Verma **Phys. Rev.** 75 (2007) 014009
106. Exclusive Weak Hadronic Decays of Charm Baryons in Flavour SU(3) Reanalyzed
Arvind Sharma and R.C. Verma *Ind.J.Pure & App.Phys.* 45 (2007) 189
105. Nonfactorizable Contributions to Hadronic Decays of D mesons
R.Dhir and R.C. Verma **J. PhysG** 34 (2007) 637
104. Magnetic Moments of Charmed Baryons using effective mass and screened charge of quarks
R.Dhir and R.C. Verma **J. PhysG** 31 (2005) 141
103. Weak Nonleptonic Decays of Charm Baryons emitting Scalar Mesons
Arvind Sharma and R.C. Verma **Phys. Rev.** 71(2005) 074024-1
102. Reanalysis of baryon magnetic moments using the effective mass and screened charge of quarks
B.S. Bains and R.C. Verma **Phys. Rev. D** 66 (2002) 11408
101. Quark Diagram Analysis of Weak Hadronic Decays of Bc Meson
R.C. Verma & A.C.Sharma **Phys. Rev. D** 65 (2002) 114007
100. Quark Diagram Analysis of B \rightarrow VV Weak Decays & Smearing Effects
R.C. Verma & A.C.Sharma **Phys. Rev. D** 64 (2001) 114018
99. Strong BBP couplings for the Charmed Baryons
R.C. Verma and M.P. Khanna *Ind.J.Pure & App.Phys.* 39 (2001) 615
98. Charm Hadronic Weak Decays and Non-Factorizable Contributions
R.C. Verma *Ind.J.Pure & App.Phys.* 38 (2000) 395
97. Rare Decays of ψ and Y
K.K. Sharma and R.C. Verma, *Int. JI. Mod. Phys. A* 14 (1999) 937
96. A QQ-Potential extracted from Quarkonium Spectroscopic Data'
K.K.Sharma, R.C. Verma & A.C.Sharma, *Ind.J.Pure & App.Phys.* 37(1999) 75
95. Study of Weak Mesonic Decays of Λ_c & Ξ_c baryons on basis of HQET Results
K.K. Sharma & R.C. Verma, **Eur. Phys. J. C** 7 (1999) 217
94. Bottom Baryons Decays in Pole Model,
S.Sinha, M.P. Khanna & R.C. Verma, **Phys. Rev. D** (1998) 4483
93. An Incompatibility in Calculation of Quarkonium Masses & Leptonic Widths,
A.Sharma, R.C. Verma & M.P.Khanna, *Ind. J Pure & App.Phys.* 36 (1998) 259
92. Nonfactorizable Contributions to Weak D \rightarrow PP Decays
K.K.Sharma, A.C. Katoch & R.C. Verma, **Zeits f. Phys. C** 76 (1997) 311

91. SU(3)-flavor Analysis of Two-body Weak Decays of Charmed Baryons
K.K. Sharma & R.C. Verma, *Phys. Rev. D* 55 (1997) 7067
90. Isospin Analysis of nonfactorizable contri. to hadronic decays of charm mesons
A.C.Katoch, K.K.Sharma & R.C. Verma, *J. Phys. G* 23 (1997) 807
89. Nonfactorizable Contributions to Weak $D \rightarrow PV$ Decays (ICTP/95/166)
K.K.Sharma, A.C. Katoch & R.C. Verma, *Zeits f. Phys. C* 75 (1997) 253
88. CKM Favored B-meson Decays to Pseudoscalar & Axial mesons
A.C. Katoch & R.C. Verma, *J. Phys. G* 22 (1996) 1765
87. Weak Decays of B-mesons to $P(0^-)$ & $S(0^+)$ in Final state
A.C. Katoch & R.C. Verma, *Int. J. Mod. Phys. A* 11 (1996) 129
86. Nonfactorization in Hadronic Two-body Cabibbo-favored decays of D^0 & D^+ ,
A.N.Kamal, A.B.Santra, T.Uppal & R. C.Verma, *Phys. Rev. D* 53 (1996) 2506
85. Cabibbo Favored Hadronic Decays of Charmed Baryons in Flavor SU(3)
R.C. Verma & M.P. Khanna, *Phys. Rev. D* 53 (1996) 3723
84. SU(3)Flavor Analysis of Nonfactorizable Contributions to $D \rightarrow PP$ Decays
R.C. Verma, *Phys. Letters B* 365 (1996) 377
83. Searching Systematics for Nonfactorizable-Contributions-Hadronic decays of D^0 & D^+
R.C. Verma, *Zeits f. Phys. C* 69 (1996) 253
82. Weak Decays of B- & B_0 Mesons to 0^- & 2^+ Mesons involving $b \rightarrow c$ Transition
A.C. Katoch & R.C. Verma, *Phys. Rev. D* 52 (1995) 1717
81. Cabibbo-Favored Decays of Mesons to Pseudoscalar & Axial Mesons
A.C. Katoch & R.C. Verma, *J. of Phys. G* 21 (1995) 525.
80. Analysis of Cabibbo-favor Decays of Charmed Mesons with η or η' in final state
R.C.Verma, A.N.Kamal & M.P.Khanna, *Zeits Phys. C* 65 (1995) 255
79. Comparison of $\Delta I = 1/2$ & $\Delta I = 3/2$ Contributions to Ω & Kaon Weak Decays
T. Uppal, R.C. Verma, M.P. Khanna & M. D. Scadron *J. of Phys. G* 21 (1995) 621.
78. D Decays into Pseudoscalar & Scalar Mesons
A.C. Katoch & R.C. Verma, *Zeits f. Phys. C* 62 (1994) 173
77. Constituent Quark Model Analysis of Weak Meson Decays of Charm Baryons
T.Uppal, R.C.Verma & M.P.Khanna, *Phys. Rev. D* 49 (1994) 3417
76. Weak Decays of D Mesons to Pseudoscalar-Tensor Final States
A.C. Katoch & R.C. Verma, *Phys. Rev. D* 49 (1994) 1645.
75. Vector-Vector Weak Decays of D-Mesons in SU(4) Framework
A.C.Katoch & R.C.Verma, *Ind. J Pure & App.Phys.*31(1993) 216.
74. Weak Electromagnetic Decays of Charm Baryons
T. Uppal & R.C. Verma *Phys. Rev. D*,47 (1993) 2858.
73. Branching Ratios for $D \rightarrow VV$ incl. Smearing Effects due to ρ -Meson Width
T. Uppal & R.C. Verma, *Zeits f. Phys. C* 56(1992) 273.
72. Smearing Effects of ρ - Meson Width on $D \rightarrow PV$ Decays
T. Uppal & R.C. Verma, *Phys. Rev. D* 46 (1992) 2982.
71. Two-Body Meson decays of B-Mesons in SU(4)
S.M. Sheikholeslami & R.C. Verma, *Int. J. Mod. Phys. A* 16 (1992) 3691.
70. Effects of a_1 - width on $D \rightarrow K a_1$ Decays,
R.C. Verma & A.N. Kamal, *Phys. Rev. D* 45 (1991) 982.
69. Weak Radiative Decays of Hyperons with in SU(6) Broken Q.Diquark Model
T. Uppal & R.C. Verma, *Zeits f. Phys. C* 52 (1991) 307

68. Nonstrange Charmed Baryon Masses in SU(3) Skyrme Model,
S.M. Sheikholeslami & R.C. Verma, *Ind. J Pure & App.Phys.*30(1992)41
67. $D, D_s^+ \rightarrow VV$ Decays in two Models:SU(3) Model & Factorization Model with FSI
A.N. Kamal, R.C. Verma & N. Sinha *Phys. Rev.D* 43 (1991) 843.
66. Cabibbo-Favored,-Suppressed & -Doubly Suppressed $D \rightarrow PP$ & $D \rightarrow VP$ in SU(3) with FSI
R.C. Verma & A.N. Kamal, *Phys. Rev. D* 43 (1991) 829.
65. Cabibbo-Enhanced Decays of Charm Baryon in SU(4) Semidynamical Scheme
S.M.Sheikholeslami, M.P.Khanna & R.C.Verma, *Phys. Rev. D* 43 (1991) 170.
64. Hadronic Weak Decays of ψ
R.C.Verma, A.N.Kamal & A.Czarnecki, *Phys.Letters B* 252(1990)690
63. Sum Rules for the Pseudoscalar BBP Couplings
M.P. Khanna & R.C. Verma, *Zeits f. Phys. C* 47 (1990) 275.
62. A Reanalysis of Weak Radiative Decays of Hyperons,
R.C. Verma & A. Sharma, *Phys. Rev. D* 36 (1988) 1443.
61. Photon Cloud Effects on Iso-Mass Differences of Charm & Uncharm Baryons,
R.C. Verma & S. Srivastava, *Phys. Rev. D* 38 (1988) 1623.
60. An Analysis of Charm $\rightarrow PP$ Based on SU(3) Symmetry & FSI
A.N. Kamal & R.C. Verma, *Phys. Rev. D* 35 (1987) 3515.
59. Quark Effective Mass & Baryon Magnetic Moments,
R.C. Verma & M.P. Khanna, *Prog. Theor. Phys.* 77 (1987) 1019.
58. Electromagnetic Mass Difference of $1/2^+$ Baryons in Quark & Skyrme Models,
S. Srivastava & R.C. Verma, *Phys. Rev. D* 35 (1987) 965.
57. Shielding of Quark Charge & Baryon Magnetic Moments,
R.C. Verma & M.P. Khanna, *Phys. Letters.* 183 B (1987) 207.
56. Baryon Masses & Magnetic Moments in SU(6) Broken Diquark Model
P. Kaur & R.C. Verma, *Ind. J.Pure & Appl. Phys.*25 (1987)6
55. Counting Strange Quarks for the Skyrme Masses,
R.C. Verma & M.P. Khanna, *Euro. Phys. Letts.* 2 (1986) 681.
54. Constituent Quark Model Picture for Nonleptonic Hyperon Decays
M.P.Khanna, R.C.Verma & M.D.Scadron, *J.Phys. G* 12 (1986) 1323.
53. A Note on the Baryon Masses in Skyrme Model,
R.C. Verma & M.P. Khanna, *Phys. Rev. D* 34 (1986) 1638.
52. W-Exchange Dominance & the $\Sigma^+ \rightarrow p + \gamma$ Asymmetry,
R.C. Verma & A. Sharma, *J. Phys. G* 12 (1986) 1329.
51. Tachyons in Gravitational Field,
H.C.Chandola, B.S.Rajput, R.Sagar & R.C.Verma, *Ind.J.Pure & App.Phys.* 24(1986)51.
50. On the Relation Between Coupling & Mass,
R.C. Verma, *Acta Phys. Pol. B* 16 (1985) 27.
49. Elementary Particle Interactions in Astrophysics,
R.C. Verma, *Acta Ciencia Indica* 10 (1984) 319.
48. Meson Cloud Effects on Baryon Moments,
R. Sagar & R.C. Verma, *Acta Phys. Pol. B* 15 (1984) 903.
47. Strong Coupling & Hadron Masses,
R. Sagar & R.C. Verma, *Can. J. Phys.* 62 (1984) 226.

46. Anomalous Magnetic Moments for Uncharmed & Charmed Baryons,
R. Sagar & R.C. Verma, *Can. J. Phys.* 62 (1984) 123.
45. Magnetic Interactions of $L=0$ Hadrons,
R.Sagar & R.C.Verma, *Ind.J.Pure & Appl. Phys.* 22 (1984) 129.
44. Baryon Magnetic Moments in Quark-Diquark Model,
M.P. Khanna & R.C. Verma, *Pramana* 21 (1983) 241.
43. Radiative Decays & Mag. Moments of Hadrons in SU(3) u,d,c Quark Sector,
R. Sagar & R.C. Verma, *Acta Ciencia Indica* 9 (1983) 45.
42. Why the Proton-Neutron moment Ratio is -1.46,
R.C. Verma, ***J. Phys. G*** 9 (1983) L253.
41. Space-Time Reciprocity in 6-Dimensional Super-Luminal Transformations,
R.C. Verma, H.C. Chandola & B.S. Rajput, *Acta Ciencia Indica* 9 (1983) 27.
40. Two-Body Effects on Baryon Mag. Moments & Radiative Decays of Mesons,
R.C. Verma, *Pramana* 19 (1982) 255.
39. Radiative Weak Decays of Baryons,
A.N. Kamal & R.C. Verma, ***Phys. Rev. D*** 26 (1982) 190.
38. Parity Violating Weak Baryon Decays in Support of SU(6)_{Broken} Diquark Model,
R.C. Verma, *Prog. Theor. Phys.* 67 (1982) 706.
37. Gluon Exchange Effects on Baryon Magnetic Moments,
R.C. Verma & M.P. Khanna, *Lett. Nuo. Cim.* 32 (1981) 429.
36. Parity Violating Hadronic Decays of $1/2^+$ Baryons in Current Algebra Scheme
P.K. Chatley & R.C. Verma, *Acta. Phys. Pol. B* 12 (1980) 881.
35. Weak Decays of $1/2^+$ & $3/2^+$ Baryons in SU(4) Dynamical Scheme,
S.Kanwar, R.C.Verma & M.P. Khanna, ***Phys. Rev. D*** 24 (1981) 117.
34. Magnetic Moments of $J^P = 1/2^+$ Baryons in Broken SU(8),
R.C. Verma, *Can. J. Phys.* 59 (1981) 506.
33. Weak Gamma Decays & the Nonleptonic Weak Hamiltonian,
P.N. Pandit, R.C.Verma & M.P.Khanna, *Prog.Theo.Phys.* 64(1980)2158.
32. Right-Handed Current & Two Body Hadronic Charm Decays,
A.N. Kamal & R.C. Verma, *Can. J. Phys.* 58 (1980) 1734.
31. Strong Couplings in Broken SU(4),
P.N.Pandit, M.P.Khanna & R.C.Verma, *Can.J.Phys.* 58 (1980) 1070.
30. Magnetic Moments of Baryons in Broken Spin-Unitary-Spin Symmetry
R.C. Verma, ***Phys. Rev. D*** 22 (1980) 1156.
29. Symmetry Breaking Effects on Radiative Decays of Mesons,
R.C. Verma, ***Phys. Rev. D*** 22 (1980) 698.
28. Second Order Breaking Effects on Hadron Masses,
C.P.Singh, R.C.Verma & M.P.Khanna, ***Phys. Rev. D*** 21 (1980) 1388.
27. Charm Changing Decays of $1/2^+$ & $3/2^+$ Baryons in SU(3) Dynamical Scheme,
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3. Growth of lithium fluoride crystals grown by Edge defined film fed growth technique
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Talks Published : -

18. Science Education: Crisis and Solutions, *R.C. Verma*
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H.G. College, Jagadhri, page 24.
17. Ultimate Structure of Matter, *R.C. Verma*
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16. A Modern View on Radiation, Matter and Forces, *R.C. Verma*
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15. Some Ancient Indian Thoughts on Evolution of Universe, *R.C. Verma*
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14. Charm Hadron Weak Decays & Nonfactorizable Contributions (**Review**), *R.C.Verma,*
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 12. Evolution of Universe and Concepts of Matter: Some Ancient Indian Views,
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 10. Upanishadis Thoughts on Matter, *R.C. Verma*
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Kurukshetra Univ., Kurukshetra
 9. Efficacy of Computer Aided Learning in Physics, *R.C. Verma*,
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 8. A Puzzle in $D, D_s \rightarrow \eta/\eta' + P/V$ Decays, *R.C. Verma*,
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 5. Monopole Physics and Skyrmion Masses, *R.C. Verma, & M.P. Khanna*
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 4. Group Theoretical Aspects of Schrodinger Equation, *R.C. Verma*,
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 3. Indian Contributions to Development of Calculus, *R.C. Verma*
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 2. Extension of Eddington Ideas to Quark-Lepton Level, *R.C. Verma*,
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 1. Elementary Particle Interactions in Astrophysics (**Review**), *R.C. Verma*,
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Participation in *International Conferences/Workshops etc. held abroad: -*

1. KEK Flavor Factory Workshop,
KEK, Tsukuba, **Japan** (2014)
2. NRF Workshop on Particle Physics and Cosmology,
Yonsei University, Seoul, **S. Korea** (2013)
3. 26th Spring School on Particles and Fields,
National Taiwan University, Taipei, **Taiwan** (2013)
4. Workshop on Higgs Physics and Beyond,
Institute of Physics, Academia Sinica, Taipei, **Taiwan** (2013)
5. LHC Symp. & PSROC Ann. Meeting,
National Taiwan University, Taipei, **Taiwan** (2011)
6. International Workshop on Particle Physics phenomenology,
AS, Lu-Dong, **Taiwan** (2005)
7. International Conference on Flavour Physics,
National Central University, Chung-li, **Taiwan** (2005)
8. Lake Louise Winter Institute on `Quarks and Colliders`,
University of Alberta, Lake Louise, **Canada** (1995)
9. Lake Louise Winter Institute on `Factory Era`,
University of Alberta, Lake Louise, **Canada** (1991)
10. Lake Louise Winter Institute on `Standard Model & Beyond`,
University of Alberta, Lake Louise, **Canada** (1990)
11. XII International Workshop on Weak Interactions & Neutrinos,
Technion Institute of Technology, Ginosar, **Israel** (1989)
12. XXIII Internatioanl Conference on High Energy Physics,
Berkeley University, Berkeley, **U.S.A.** (1986)
13. Nato Advanced Research Workshop on Super Field Theories,
Simon Fraser University, Vancouver, **Canada** (1986)
14. Canadian Association Physicists Congress'86,
University of Alberta, Edmonton, **Canada** (1986)
15. XX International Conference on High Energy Physics,
University of Wisconsin, Madison, **U.S.A.** (1980)

Participation in *National/International Conferences/Symposia/Refresher Course etc. held in India: -*

a) Invited Speaker/ Resource Person

16. Guest Lecture at National Conference. on Higher Education, GMN College, Ambala Cantt. (2015)
17. Guest Lecture at Science Conclave, Maharishi Dayanand Univ. Rohtak (2014).
18. Refresher Course in Computer Sc.& Information Technology, ASC, Punjabi Univ. Patiala (2013)

19. Guest Colloquium Program at Central University of Himachal Pradesh, Dharamshala (2013)
20. National Workshop on Instrumentation, Devi Ahilya University, Indore (2013)
21. National Seminar on Recent Advances in Basic Sciences in Era of Modern Technology, Markanda National College, Shahbad (2013)
22. **International Conference** Emerging Trends in Physics for Environmental Management, Punjabi University, Patiala (2012)
23. Refresher Course in Physics (RC-249), Himachal Pradesh University, Shimla (2012)
24. 22nd Refresher Course in Computer Applications and IT for College and University Teachers, ASC, Punjabi University, Patiala (2012)
25. North Zone Meeting of IAPT, GGS College, Chandigarh (2012)
26. 7th Orientation Course, ASC, Punjabi University, Patiala (2011)
27. Refresher Course in Physics (RC-239), Himachal Pradesh University, Shimla (2011)
28. National Seminar on Physics Education Research, St. Bede College, Shimla (2011)
29. National Workshop on Mathematica: An Integrated Environment for Computer Simulation in Physics and Mathematics, Chitkara University, Baddi (2011)
30. National Seminar on Yoga and Aura, Brahmrisi Yoga Training College, Chandigarh (2011)
31. Zonal Convention cum Workshop on Education, GN Public School, Ludhiana (2011)
32. National Seminar on Science as Living Reality, H.G. College, Jagadhari (2011)
33. 5th Orientation Course, ASC, Punjabi University, Patiala (2010)
34. Refresher Course in Physics, Panjab University, Chandigarh (2010)
35. 4th Orientation Course, ASC, Punjabi University, Patiala (2010)
36. Refresher Course in Mathematics & Statistics, ASC, Punjabi University, Patiala (2010)
37. Workshop on Symbolic Computation & Mathematica in Continuum Mechanics and Algebra,, H.P. University, Shimla, (2010)
38. Refresher Course in Physics, Himachal Pradesh University, Shimla (2009)
39. 3rd Orientation Course, Punjabi University, Patiala (2009)
40. Seminar on Current Trends in Physics, Panjab University, Chandigarh (2009)
41. Workshop on Computer Lab. Training in Physics, Punjabi Univ., Patiala (2008)
42. Aryabhatta Institute of Observational Sciences (ARIES), Nainital (2008)
43. Summer School in Basic Sciences, Kurukshetra University, Kurukshetra (2008)
44. Refresher Course in Physics, Himachal Pradesh University, Shimla (2008)
45. National Workshop on Emerging Technologies, Punjabi Univ., Patiala (2008)
46. Refresher Course in Mathematics, Physics & Computer Science, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad (2008)
47. Recent Advances in Innovative Materials, NIT, Hamirpur (2008)
48. 11th Punjab Science Congress (2008), Thapar University, Patiala, (Feb 2008)
49. Workshop on Computer Lab. Training in Physics, Punjabi Univ. Patiala (2006)
50. Refresher Course in Computational Physics, Himachal P. Univ., Shimla (2006)
51. National Conference on Advances in Condensed Matter Physics, Thapar University, Patiala (2005)
52. Refresher Course in Physics, University of Rajasthan, Jaipur (2005)
53. 8th Punjab Science Congress, Punjabi University, Patiala (2005)

54. Refresher Course on Advances in Physics, Panjab Univ., Chandigarh (2005)
55. National Symposium on Radiation Measurements & Applications, Punjabi Univ. Patiala (2004)
56. Workshop on Computer Lab. Training in Physics, Punjabi Univ. Patiala (2004)
57. Refresher Course in Electronics, Kurukshetra Univ. Kurukshetra (2004)
58. Frontiers of Physics - Refresher Course, G.N.D. Univ. Amritsar (Jan 2004)
59. Refresher Course in Physics, G.N.D. Univ. Amritsar (2003)
60. Regional Workshop on Facilities & Research Program at NSC, Punjabi University, Patiala (2002)
- 61.** Seminar on Science in Ancient India, Vigyan Bharti, Kurukshetra (2002)
62. Refresher Course in Physics, Himachal Pradesh University, Shimla (2002)
63. XV DAE Symposium on High Energy Physics, University of Jammu, Jammu (2002)
64. Recent Trends in Theoretical and Experimental Physics-Refresher Course, Maharishi Dayanand University, Rohtak (2002)
65. Seminar on Computational Techniques in Phys., Panjab Univ. Chandigarh (2002)
66. Recent Advances in Physics - Refresher Course, G.N.D. Univ. Amritsar (2002)
67. National Symposium on Ancient Indian Science, Engineering & Technology interfaced with Modern Knowledge & Science, Vigyan Bharti, N. Delhi (2001)
68. 16th MP Young Scientist Congress, Devi Ahilyabai University, Indore (2001)
69. Refresher Course in Physics, B. Ambedkar M. University, Aurangabad (2001)
70. Seventh Symposium on Radiation Physics. Punjabi Univ. Patiala (2001)
71. 20th Astronomy Society of India Meeting & National Symposium Gorakhpur Univ., Gorakhpur (2000)
72. Refresher Course in Physics, Kurukshetra University, Kurukshetra (2000)
73. Refresher Course on Concepts in Physics, Aligarh M. Univ., Aligarh (2000)
74. XV Annual IAPT Convention, Panjab University, Chandigarh (2000)
- 75.** Atomic, Nuclear & Solid State Phys.-Refresher Course, Punjabi Univ. Patiala (2000)
76. Summer School on Working of Mind, Institute of Advanced Study, Shimla (2000)
77. Refresher Course on using Computers in Phys., Aligarh M. Univ., Aligarh (2000)
78. Workshop on Use of Computer Applications in Education, DVS-Center of Applied Science & Technology, Kanpur (2000)
79. DSA & COSIST program, Kumaon University, Nainital (1999)
80. National Seminar on Research Methodology, Kumaon University, Nainital (1999)
81. XIV Annual IAPT Convention, Citi Montessori, Lucknow (1999)
82. *UPSO-IUCAA Workshop, UP State Observatory, Nainital (1999)*
83. Refresher Course on Physics, Punjabi University, Patiala (1999)
84. 6th Symposium on Radiation Physics, Punjabi University, Patiala (1999)
85. UGC-National Symposium on SUSY Breaking, Kumaon Univ., Nainital (1999)
86. Contemporary Physics- Refresher Course, Punjabi University, Patiala (1999)
87. Refresher Course in Physics (Electronics), R.D. University, Jabalpur (1999)
88. National Conference on Science & Sanskrit, Jiwaji Univ. Gwalior (1999)
89. XIII DAE Symposium on High Energy Physics, Panjab Univ., Chandigarh (1998)
90. DSA & COSIST program, Kumaon University, Nainital (1998)

91. Refresher Course on `Electronics', Rani Durgawati University, Jabalpur (1998)
92. Workshop on B & Neutrino Physics, Mehta Research Institute, Kanpur (1998)
93. Workshop on Relativistic Heavy Ion Collisions, Univ. of Rajasthan, Jaipur (1997)
94. First Punjab Science Congress, Punjabi University, Patiala (1997)
95. 84th Session of Indian Science Congress, University of Delhi, Delhi (1997)
96. XII DAE Symposium on High Energy Physics, Gauhati University, Gauhati (1996)
97. SERC(DST) Winter School in High Energy Phys. Panjab Univ., Chandigarh (1996)
98. **International Conference** on Educational Computing, TTTI, Chandigarh (1996)
99. Foundations of Modern Physics - Refresher Course, Panjab University, Chandigarh (1995)
100. UGC National Symp. on Live Issues in Physics Education, TIET, Patiala (1995)
101. Refresher Course on `Foundations of Physics', Kurukshetra Univ. (1994)
102. **International Workshop** on Use of Computers in Teaching Physics, Rani Durgawati University, Jabalpur (1992)
103. Computational Physics - Refresher Course, Himachal P. Univ. Shimla (1992)

b) Research Papers presented

104. National Seminar on History & Philosophy of Phys., Kumaon Univ., Nainital (1991)
105. High Energy Physics Symposium, Srinagar Univ., Srinagar (1988)
106. Symposium on History and Philosophy of Sciences, G.N.D. University, Amritsar (1988)
107. Schrodinger Cent. Refresher Course on Theoretical Phys. Devi Ahilyabai Univ., Indore (1987)
108. **International Conference** on Changing Faces of Particle & Nuclei, Banaras Hindu University, Varanasi (1986)
109. UGC Symposium Monopoles, Dyons & Tachyons, Kumaon Univ., Nainital (1985)
110. SERC Summer School on High Energy Physics, I.I.Sc., Bangalore (1985)
111. National Symp. on Group Theory & Applications, Manipur Univ., Imphal (1985)
112. Symposium on High Energy Astrophysics & Astronomical Society Meeting, Gorakhpur University, Gorakhpur (1982)
113. **International Centenary Symposium** on Relativity & Cosmology (Sir A. Eddington) Einstein Science Foundation, Nagpur (1982)
114. VI High Energy Physics Symposium, University of Mysore, Mysore (1982)
115. Advanced Institute on Relativity & Gravitation, M.M.M. College, Gorakhpur (1982)
116. Symposium on Nuclear Interactions at High Energies, University of North Bengal, Raja Ram Mohanpur (1979)
117. IV High Energy Physics Symposium, Univ. of Rajasthan, Jaipur (1978)
118. III High Energy Physics Symposium, Inst. Of Physics, Bhubaneshwar (1976)

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