

Curriculum Vitae

Prof. B. C. CHAUHAN

Sr. Professor of Physics, CUHP Dharamshala (HP)

Address: Department of Physics and Astronomical Science, School of Physical and Material Sciences Central University of Himachal Pradesh, Dharamshala, Distt. Kangra (HP) INDIA-176215.

Visiting Associate: (July 2010 to date...)

Inter-University Centre for Astronomy & Astrophysics (IUCAA), Pune (An Autonomous Body of UGC):

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Citizenship Indian

Research:

Core Area:

Solar Neutrinos, Lepton Flavour Mixing, Neutrino Astrophysics and Dark Matter in the Universe

Other Interests:

Indian Knowledge System, History and Philosophy of Science, and Energy Studies.

Professional Qualifications

- **Educational Qualifications:** M. Sc., M. Phil., Ph.D.
- **PDF** (Technical University Lisbon, PORTUGAL): 5 Years.
- **Matric:** 1985 (71%), Govt. High School Nihri, Mandi, HP.
- **B.Sc. (N/M):** 1989 (77%), Govt. Ballabh P.G. College Mandi, HP.
- **M. Sc. (Physics):** 1991 (65%) H.P. University, Shimla, HP.
- **M. Phil. (High Energy Physics):** 1994 (69%) H.P. University, Shimla, HP.
- **Ph.D. (Solar Neutrinos):** 2001, H.P. University, Shimla, HP.
- **PDF (Neutrino Astrophysics):** IST-Technical Univ. Lisbon (2001-2006).

Additional Examinations/ Qualifications

- National Graduate Physics Examination (NGPE) held by Indian Association of Physics Teachers (IAPT) in 1989 at B.Sc. level.
- National level Education Test (NET) held by University Grants Commission (UGC) in 1992, for Lectureship in the Indian Universities/ Colleges.
- Diploma in Yoga-Studies: HP University (1994).
- Principal Yog Teacher, Patanjali Yogpeeth, Haridwar (2007).
- Certificate Course in French Language: HP University (1992).

Employment History

- Permanent Teaching Career: Department of Higher Education (Govt. College Karsog): 1997-2012.
- Post Doctoral Fellow (Abroad): 2001 -2006.
- Visiting Associateship, IUCAA (2010-.....)
- **Central University of Himachal Pradesh: 2012- till date**

Awards and Recognition

- **Member of Advisory Panel** on Thematic Synergy between India & Japan, India–Japan Education Conclave, BHU, Varanasi (14–16th November 2025).
- **Special Invitee Member for UGC-LOCF**, Developing the Curricular Framework for Physics under NEP2020 Guidelines (2025).
- **Visiting Associateship** by Inter-University Centre for Astronomy & Astrophysics (IUCAA) Pune, renewed in August 2025 (Continued since August 2010).
- **Best Teacher Award-2025**, CUHP Foundation Day by Hon'ble Governor Himachal Pradesh (January 18th 2025).
- **Citation Honor in the 1st National Scientists' Round Table Conference (NSRTC2024)** at MIT-WPU, Pune (July 21st 2024).
- **Chairman**, Thakur Ram Singh Itihas Shodh Sansthan (TRISS), Neri, Hamirpur (July 2024-...).
- **The Vision of NEP2020: Integrating Bharatiya Knowledge System in Physics** Textbooks, Workshop Organized by Vidy Bharati Uchch Shiksha Sansthan-2023 in SPU Mandi (HP).
- **Trigarta Science Teacher Hall of Fame Award 2022**, Tourizmo Trigarth Carnival 2022, G.C. Dharamshala.
- **Vice-Chairman, CUHP NEP2020** Implementation Committee (2021).

- **Member**, NEP Implementation, Progress Monitoring and Advisory Committee under National Zone-3, Region-3.
- **Chairman/ Member**, Syllabus Framing Committee for university wide courses under NEP2020.
- **Member**, RUSA Reconsidering UG Curriculum Committee of HP State Department of Education (2017).
- **Member and Advisor**, Syllabus Framing of Vedic Mathematics for Schools, HP School Board of Education (2019-20).
- **Member**, University Apex Academic Review Committee, CUHP (2021).
- **Vice-President**, VIGYASA [A Unit of Vijnana Bharati (VIBHA)] Himachal Pradesh Prant.
- **Member, Task Force**, New Education Policy Implementation, Govt. of Himachal Pradesh (Sept. 2020).
- **Member, Task Force**, New Education Policy Implementation, Shiksha Sanskriti Utthan Nyas, H.P.
- **Member, Higher Education Council**, Govt. of Himachal Pradesh (2019).
- **Dr. Shyama Prasad Mukharjee Samman**; Yuva Lekhak Manch, Nurpur, Kangra (2019).
- **Ram Narayan Arya Samman** by Indian Foundation for Vedic Science, International Seminar Baba Mastnath University, Rohtak (Oct. 2018).
- **Chief-Guest, Guest of Honor, and honored** in several Academic and Social functions & programmes with wide media coverage.
- **Chaired Sessions** in several international/ national conferences and workshops of the research areas.
- **Bharat Shiksha Ratan Award 2012** by Global Society for Health & Educational Growth, at Patel Bhawan, New Delhi.
- **Member**, Board of Studies, HPU Shimla, HPTU Hamirpur; SPU Mandi.
- **Judge/Examiner** at DST-Inspire, National Science Day, schools, and several university/ college levels activities.
- **Member**, Screening and Selection Committees at the various universities and Institutes.
- **Chairman/ Convener/ Member** of several academic, administrative and Managerial committees of CUHP formed time to time.
- **Resource Person** in several educational training programmes at the UGC-HRDC, SCERT, DST-Inspire, National Science Day, schools, and college levels.
- **Member** of several Universities Courts, EC, AC, School Board; Board of Studies, VC Nominee and other academics bodies of the university.
- **Editorial Board (03)**: Journal of Nuclear Physics, Material Science, Radiation, and Applications; Oriental Journal of Physical Sciences, Satya Sandhan, CUHP-IKS Journal.
- **Editorial Board member** Satyya Sandhan peer reviewed International journal of Bhartiya gyan Parampara, CUHP.

- **Referee (02)** of Journal of Astronomy and Astrophysics (JOAA); International Journal for Theoretical Physics (IJPT).
- **Award of Post-Doctoral Fellowship** offered by Ministry of Science & Technology (FCT), Government of Portugal in Sept., 2004 (3 years).
- **Award of Post-Doctoral Fellowship** offered by Ministry of Science & Technology (FCT), Government of Portugal in Sept., 2001 (3 years).
- **Award of Research Associateship (RA)** by CTS, IIT Kharagpur in August 2001.
- **Biography published** from U.S.A., in the Millennium Edition (Ed. 2000) of the "Marquis Who's Who in the World".
- **Topped in the Merit list of State College Cadre Commission (1997)**, conducted by the HP Public Service Commission (HPPSC).
- **President**, HP University NET Qualified Student Association (1996-97).
- **Publisher & Editor-in-Chief**, 1st Competition Magazine "Him Competition Vision" launched from Himachal Pradesh (1995-96).
- **Nominated by MHRD**, Govt. of India to United Kingdom (U.K.) for Ph. D. under **Commonwealth Fellowship** Scheme in 1995.
- **HPU Gold Medal** in Certificate course in French Language in 1993.
- **Awards of JRF (1992) & SRF (1994)** of University Grants Commission (UGC) for pursuing M.Phil. and PhD degrees.
- **Got distinction** in National Graduate Physics Examination (NGPE) at B.Sc. level (1989).
- **Was Associated** with Additional Director of Education for project under Nuclear Science & Technology.
- **Talks Telecasted:** Vedic Civilization and Science (Telecasted by the national TV Channel of Portugal in October 2006.)
- **Talk Telecasted:** Bharat Upgrah Ke Kshetar Mein (Talk aired through All India Radio Shimla (AIR) in June 1996.)
- **Visited more than 10 countries including USA, Russia, Germany, Italy, Switzerland, and France.**

University Administration

- **Director, Shahpur Campus of Central University of Himachal Pradesh (CUHP) (2021...)**
- **Head, Department of Physics and Astronomical Science, CUHP (June 2025-)**

- **Nodal Officer**, Panch Pran Pahal, CUHP (2024-).
- **Nodal Officer**, Universal Human Values, CUHP (2026-).
- **Director**, Research & Development, CUHP (2023-25).
- **Co-ordinator**, CUHP Campus, TAB Shahpur (2019-20).
- **Dean**, School of Physical & Material Sciences, CUHP (17th July 2017-2020).
- **Dean**, School of Mathematics, Computers & Information Sciences, CUHP (2019).
- **Head**, Department of Physics & Astronomical Science, CUHP (19th April 2015 to April 2020).
- **Head**, Department of Mathematics, CUHP (2019).
- **Head**, Department of Library and Information Science, CUHP (2019).
- **Head**, Department of Computer Science, CUHP (2019).
- **Director**, Computer Centre, CUHP (2019).
- **Provost**, Central University of Himachal Pradesh (April 2017-2021).
- **Planning & Development Officer**, CUHP (2015- 2020).
- **Member Secretary**, Planning and Development Board, CUHP (2015 - 2020).
- **Hony. Director**, Community Development Cell, CUHP (2015-2020).
- **Nodal Officer/ Project Investigator**, Unnat Bharat Abhiyan, CUHP (2015-2020).
- **Nodal Officer**, Swachh Bharat Abhiyan, CUHP (2016-2020).
- **Nodal Officer**, Ek Bharat Shreshth Bharat, CUHP (2016-2020).
- **Nodal Officer**, International Yoga Day Celebration, CUHP (2017-22).
- **Convener**, CUHP, Transport Service (2021)
- **Chairman**, Yogdhara Club, CUHP (2014 -).

Govt. College Administration

(Govt. College Karsog, Mandi HP Govt., Department of Higher Education)

- **Officiated as Principal** (Time to Time), **In-charge**, Dean Academics and Dean Student Welfare (2010-2012), **President**, Save Energy Club; **Convener**, **UGC** Funds (75 Lacs.) Utilization Committee (2010-12); **In-charge**,

- **UGC Network Resource Centre (2010-12); President, 'Wonder Science Club' (1999-2000; 2007- 2011);**
- **Head, Physics Department (1997-2001; Dec., 2006 -2012);**
- **Co-ordinator, IT Center (2007-12);**
- **Editor, 'Science Section' of Kamaksha Magazine (2007-2011);**
- **Team Leader for Developing, Designing & Launching of the College Website:**
www.gckarsog.org;
- **Active Member:** Student Council and Grievance Committee, College Advisory Body, Library Committee, Hostel Committee, etc;
- **Convener/ Member** of several important functioning Committees in the College;
- **Co-ordinator, Old Students' Association (OSA) (2009-12);**
- **Staff Secretary, Govt. College Karsog, Mandi (1999-2001);**
- **Co-ordinator, Steering Committee for NAAC accreditation of Govt. College Karsog, Mandi (Peer Team Visit during May 4-5, 2011);**
- **IQAC Coordinator, Govt. College Karsog (June 2007-11);**
- **Executive Member, Internal Quality Assurance Cell (IQAC) GC Karsog (2011-12);**
- **Co-ordinator, IGNOU Study Center, Govt. College Karsog (June 2008-2012);**
- **Member, Enquiry Committee(s) and Inspection Team (s) of HP Govt. time to time.**

Others:

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- **Director, Thakur Ram Singh Itihaas Shodh Sansthan, Neri, Hamirpur (HP) July 2017-2024.**
 - **President, Saraswati Vidya Mandir Executed Committee, Karsog (2011-12).**
 - **Principal Yog Teacher, Patanjali Yog Peeth Haridwar, Uttrakhand (INDIA).**
 - **Vice-President, Himachal Govt. College Teachers Association (HGCTA Local Unit: 2010-12).**
 - **Co-ordinator, Organization of Govt. Officers, Bharat Swabhiman Trust, Haridwar, Mandi District, HP (2010-12).**
 - **Co-ordinator, Indian Foundation for Vedic Sciences (IFFVS) for North-West India (2007-...).**
 - **Co-ordinator, IFFVS for Portugal (2005-2006).**
 - **Tehsil Prabhari (President), Patanjali Yog Samiti, Karsog, Mandi (HP) (2010-2012).**

- **Chief-Advisor**, 'Nihri KshetraJevik Krishi Kisan Sangh', Nihri, Mandi (H.P.).
- **Member, Baal-Vridha Ashram** Talyahar, Mandi (HP) (2008-...).
- **President, Amity Club** – A social group of Class-I Gazetted Officers in Karsog, Mandi (1999-2001).

Invited Seminars and Invited Conference Presentations (only Selected)

● International Level:

- **Distinguished Panelists** for In-Depth Discussions, India–Japan Education Conclave, BHU, Varanasi (14–16th November, 2025).
- **Invited Lecture:** “Role of Consciousness: The Future Course of Science and World Peace” at NSRTC2024, MIT-WPU, Pune (19-21st July, 2024).
- **Invited Lecture:** “Mystery of Dark Matter: Physics Beyond the Standard Model” at ICPD-2024, CU Jammu (4-5th April 2024).
- **Invited Lecture:** “Revisiting Quantum Anomalies: Integrating Consciousness from Bharatiya Perspectives” IIT Mandi (14-16th December 2023).
- **Talk:** “Dark Matter and Muon ($g-2$) from a Discrete Z_4 Symmetric Model”; International Conference on Beyond Standard Model (BSM 2023) Hurgada, Egypt (6-9th November 2023).
- **Invited Lecture:** “Self-Interacting Dark Matter”; International Conference; CPUH, Hamirpur (25th February 2023).
- **Invited Lecture** at the 8th HSCA International Conference at SP University Mandi, Himachal Pradesh, India (20th – 21st Oct., 2022).
- **Invited Lecture:** International Conference on Theoretical Aspects of Nuclear Physics (Online) in **CUHP** (Feb., 2021).
- **Invited Lecture:** “Tiny and Unseen Matter” at International Workshop on Advancements in Nanomaterials with Futuristic Engineering Applications; Career Point University (18th Jan., 2021).
- **Invited Lecture:** “Revisiting Quark Lepton Complementarity Model- Its Present Status”; 7th HSCA International Conference, Chittkara University, Baddi (Nov.2019).
- **Invited Lecture:** “A Model for Estimating the Unexplained Matter” HSCA International Conference, NIT Hamirpur (October 2018).
- **Invited Lecture:** “Role of Neutrinos as Dark Matter.” International Conference on Science: Emerging Scenario & Future Challenges (SESFC-2018), National Institute of Technology (NIT), **Hamirpur, HP, INDIA.**
- **Talk:** “Light Sterile Neutrinos and Dark sector of Universe.” International Science Congress at Maharaja

Agrasen University, **Baddi, SOLAN, INDIA** (1-2 May 2015).

- **Talk:** "Spectral predictions for KamLAND solar mode." 2nd Scandinavian Neutrino Workshop at AlbaNova University Center, **Stockholm, SWEDEN** (2-6 May, 2006).
- **Talk:** "Subdominant effects in low energy solar neutrino data." 2nd Xmas Workshop of CFTP in **Lisbon, PORTUGAL** (Dec. 2005).
- **Talk:** "Time Variations and Low Energy Solar Neutrinos." International conference on Frontiers in Contemporary Physics-III in Vanderbilt University, **Nashville, USA** (2005).
- **Talk:** "Model independent analysis of solar neutrino data." 1st Xmas Workshop of CFTP in **Lisbon, PORTUGAL** (Dec. 2004).
- **Seminar:** "Solar Neutrino Flux Variations and Solar Magnetic Fields." at CFIF-Instituto Superior Tecnico, Technical University **Lisbon, PORTUGAL** (June'2004).
- **Poster:** "Time Modulations and Sterile Neutrinos." International Conference of Neutrino Physics and Astrophysics (Neutrino'2004) in College De France, **Paris, FRANCE**.
- **Talk:** "KamLAND and solar antineutrino spectrum." International Conference of Non-Accelerator New Physics (NANP'03) in **Dubna, RUSSIA**.
- **Poster:** "MSW constraints on the matter density profiles in the solar interior." International Conference of Neutrino Physics and Astrophysics (Neutrino'2002) in Technical University **Munich, GERMANY**.
- **National Level:**
 - **Invited Lecture:** Bhartiya Astronomy and Kaal Ganana, FDP NEP (MMTTC) online mode CUHP (19th Feb., 2026).
 - **Invited Lecture:** Environment, Sustainable Development and Indian Perspective, FIP (MMTTC) online mode MGAHV Wardha, Maharashtra (12th Nov., 2025).
 - **Invited Lecture:** "Indian Knowledge and Research Agenda", Workshop for RD Students, IQAC, Dhawaladhar Campus-II, CUHP Dharamshala (22nd Sept., 2025).
 - **Invited Lecture:** "The Knowledge System of Bharata, Maharaja Agrasen University Baddi, HP (17th Sept., 2025).
 - **Invited Lecture:** Knowledge system and development of Modern science, International conference Indian on the Contemporary Relevance of Bhartiya Philosophy, culture and Traditions in the Modern World. (17th April 2025)
 - **Invited Lecture:** "NEP2020 in the Light of IKS", School of Mathematics, Computer and Information Sciences, CUHP Shahpur (29th April 2025).
 - **Invited Lecture:** "IKS in Management", School of Business Management, CUHP Dharamshala (26th

April 2025).

- **Invited Lecture:** “Book Review of History and Culture of Science in Bharata”, Deen Dyal Kendra, CUHP (25th Jan., 2025).
- **Invited Lecture:** “IKS-Modern Communication Modes”, Department of Department of Computer Science, HP University Shimla (09th Dec., 2024).
- **Invited Lecture:** “Indian Knowledge Systems” SHoDH Workshop, CUHP (10th Oct., 2024).
- **Invited Lecture:** “Indian Contributions to Space” Space Day-2024 Celebration, SCERT, Solan (23rd August 2024).
- **Invited Lecture:** “IKS-Space Science”, Chandra Star Club, CUHP on Space Day Month Celebration (14th August 2024).
- **Invited Lecture:** “Role of Consciousness: The Future Course of Science and World Peace”, **MIT-WPU, Pune** (21st July 2024).
- **Invited Lecture:** The Heliocentric Concept in Ancient Bharatiya Texts at **IUAC Delhi** (12th July 2024).
- **Invited Lecture:** Indian Knowledge Systems; MMTTC, SRCC (**Online**) Delhi (10th June 2024).
- **Invited Lecture:** Indian Astronomy: Bharatiya Kaal Ganana, **CUHP Dehra** (09th April 2024).
- **Invited Lecture:** The Concept of Atomic Theory in Ancient Bharata Online at **IUAC Delhi** (28th Feb., 2024).
- **Invited Lecture:** Bharatiya Samskriti mein Shiksha aur Samskar at National Seminar, **Sardar Patel University, Mandi (HP)** (12 Dec., 2023).
- **Invited Lecture:** NEP2020 and Holistic Development at HRDC, **Devi Ahilya Vishwavidyalaya, Indore (MP)** (26th Sept., 2023).
- **Invited Lecture:** Integrated Approach in Science and Technology for Sustainable Future Online at **ITM University Gwalior (MP)** on National Science Day (28th Feb., 2022).
- **Invited Lecture:** Interdisciplinary Lecture Event (Online) by **Malyagiri Mahavidyalaya, Pallahara, Odisha** (1st Sept., 2021).
- **Invited Lecture:** Scientific Culture In Bharata (Online) by **VIBHA Haryana on Independence Day** (15th August 2021).
- **Invited Lecture:** Development of Scientific Temper at Paradise School on National Science Day (28th Feb., 2022).
- **Invited Lecture:** Culture if Science in Bharata at **MLSM Sundernagar** under STUTI program of DST (27th Feb., 2022).
- **Invited Lecture:** Science and Art of Human Making by **HPYSA Shimla** (6th June, 2021).
- **Invited Lecture:** NEP2020, **Shiksha Sanskriti Utthan Nyas**, H.P. (Jan. 2021)

- **Talk:** Is Geothermal Energy the Main Source to Trigger the Earthquakes? HIMCOSTE, **IIT Mandi** (November 2018).
- **Invited Lecture:** Indian Culture of Knowledge Tradition HRDC, HPU Shimla Sept//2020.
- **Invited Lecture:** 'Neutrino Dark Matter in National Seminar at Sri Sai University, **Palampur** (23rd Nov. 2017).
- **Panel Discussion:** Religion, Science and World Peace, 4th November 2017.
- **Talk:** National Seminar on Lok-Gathaon Me Itihaas, Th. Jagdev Chand Shodh Sansthan, **Neri, Hamirpur** (2nd Oct. 4th Oct. 2015).
- **Invited DST-Inspire Lecture:** State Children Science Conclave at **SCERT Solan** (8thSeptember, 2015).
- **Talk:** NEEM Seminar on 'Quark Lepton Complementarity and Model Predictions', in **IUCAA, Pune** (28th July 2015).
- **Invited Lecture:** Energy Needs, Geothermal Energy and Environmental Issues; National Conference on 'Emerging Scenario & Future Challenges-III' at Ballabh **PG College Mandi** (11.04.2015-12.04.2015).
- **Invited Lecture:** National Seminar on Environmental Degradation and Natural Resource Management in Western Himalayas; **Govt. College Nalagarh, Solan** (20.02.2015-21.02.2015).
- **Invited Lecture:** Low Energy Solar Neutrinos and Search for Dark Matter Candidate; National workshop on Light from Dark Side of Universe at Banaras Hindu University (**BHU, Varanasi (UP)**) (17-20, March 2015).
- **Invited Lecture:** Solar Neutrinos- Looking Forward; One Day Workshop on Nuclear Structure and Astrophysics: Looking Forward at MAU, Baddi (11th April 2014).
- **Invited Lecture:** Harnessing Geothermal Energy in India; National Seminar at **Sri Sai University, Palampur** (18th Jan. 2014).
- **Lecture:** Geothermal Energy: A Natural Resource for Sustainable Development; National Seminar on Natural Resource Management: Present needs and our Common Future at **Maharaja Agrasen University, Baddi** (2014).
- **Invited Lecture:** Geothermal Energy; Academic Staff College **HPU Shimla** (05.05.2014).
- **Invited Lecture:** Radiation Hazards; Academic Staff College **HPU Shimla** (05.05.2014).
- **Talk:** Harnessing Geothermal Energy: Earthquake Disaster Free Himachal; 1st Himachal Science Congress, **Hotel Peterhoff Shimla** (15th October 2014).
- **Poster:** Can Geothermal Power production help in Earthquake Disaster management? National Workshop on Status of natural Hazards in HP at **CUHP TAB Shahpur** (6-8th Nov. 2014).
- **Talk:** Change the Attitude & Save the Environment; A Short-Term Course on Environmental Hazards at National

Institute of Technology (NIT) Hamirpur, INDIA (09-13 July, 2007).

- **Lecture:** Nuclear Hazards; A Short-Term Course on Environmental Hazards at National Institute of Technology (NIT) Hamirpur, INDIA (09-13 July, 2007).
- **Seminar:** Solar Neutrinos and Time Modulations; Indian Institute of Science Education and Research (IISER) Kolkata, INDIA (16th May, 2007).
- **Seminar:** Solar Neutrinos: Oscillations and Flux Variations; Center for Theoretical Studies (CTS), Indian Institute of Technology (IIT) Kharagpur, INDIA (25th Sept., 2007).
- **Seminar:** Neutrino Technology and its Implications; Department of Applied Sciences, National Institute of Technology (NIT) Hamirpur, INDIA (9th July, 2007).
- **Seminar:** Solar Neutrinos: Oscillations and Magnetic Moment; Indian Institute of Technology (IIT) Kanpur, INDIA (17th Nov., 2006).
- **Seminar:** Time modulations and predictions for BOREXINO; Department of Physics, Himachal Pradesh University (HPU) Shimla, INDIA (Oct. 2004).
- **Seminar:** Time modulations in solar neutrino data; Department of Physics, Punjab University Chandigarh (PU), INDIA (Oct. 2004).
- **Talk:** RSFP constraints on solar magnetic fields from solar neutrino observations; XIII th DAE high energy physics symposium in Punjab University Chandigarh, INDIA (Dec., 1998 - Jan., 1999).
- **Talk:** Dark Matter Halo: A Fluid Model; IVth Young Astronomer's Meet (YAM'96) in Indian Institute of Astrophysics (IIA) Bangalore, INDIA.
- **Talk:** Implications of solar neutrino experiments for magnetic moment solution of solar neutrino problem; XIth DAE high energy physics symposium in Vishva-Bharti University Shantiniketan, INDIA (Dec. 1994 - Jan. 1995).
- **Talk:** Ancient India: The light House of Knowledge; INACS09 Conference on Delhi University (27th November 2009).
- **Regional Level:**
 - **Invited Lecture:** Indian Contribution to Astronomy; SCERT, Solan (23rd August 2024).
 - **Invited Lecture:** Achievements of Indians in Science & Technology; Indigenization of Technology and Developing New Technology, DACE, CUHP (Feb. 2023).
 - **Invited Lecture:** Indian Contribution to Space; Space Day Programme at SCERT, Solan (23rd August 2024).
 - **Invited Lecture at the Distt. Level Sc. Exhibition & Project Competition** under Inspire awards 'Manak' (January 2020).

- **Invited Lecture:** Indian Contribution to Physics and Mathematics; SCERT, Solan (30th November 2017).
- **Invited Lecture:** On the Discovery of God Particle; Govt. College of Excellence Sanjauli (1st Dec. 2017).
- **Invited DST-Inspire Lecture:** 5-day workshop at Laurent Institute Kathog (7th July 2016).
- **Special Lecture:** On National Science Day celebration function, Dept. of Physics & Astronomical Science, CUHP, 2015.
- **Invited Lecture:** Bhartiya Kal-Ganana ke Vaigyanik Sandarbh; Th. Jadevchand Shodh Sansthan Neri, Hamirpur.
- **Invited Lecture:** Electromagnetic Pollution; SCERT, Solan (13th October 2014).
- **Invited Lecture:** The God's Particle; SCERT, Solan (13th October 2014).
- **Invited Lecture:** Mass, Matter, and Universe; Govt. College Solan (14th October 2014).
- **Invited Lecture:** Neutrino Oscillations; Workshop on Analytical Aspects of Dynamics (11-17 Nov., 2014), CUHP.
- **Invited Lecture:** Structures and Dynamics of Elementary Particles; Workshop on Analytical Aspects of Dynamics at CUHP (11-17 Nov., 2014).
- **Special Lecture:** Science and Technology in Ancient India; Colloquium Series of Physics, Dept. of Physics & Astronomical Science, CUHP (2013).
- **Special Lecture:** Holography as a Fun; Colloquium Series of Physics, Dept. of Physics & Astronomical Science, CUHP (2013).

Popular Talks (Only Selected)

- **Invited Lecture:** Culture of Science in India HIET, Shahpur (February 2019).
- **Talk:** Nobel Prize in Physics 2015: My Experiences with Nobel Laureates; CUHP (04.08.2016).
- **Invited Lecture:** Scientific Culture in India; Laureate Institute of Pharmacy, Kathog (07.07.2016).
- **Invited Lecture:** Nobel Prize in Physics 2015: On Neutrinos; MCM DAV College Kangra (March 2016).
- **Invited Lecture:** Scientific Tradition in Ancient India; B.Ed. College Dharamshala, 2016.
- **Invited Lecture:** Scientific Basis of Bhartiya Kala-Ganana; Nalanda College of Education, 2016
- **Invited Lecture:** Science and Education System in Ancient India; B.Ed. College Dharamshala, 2015.
- **Invited Lecture:** Tradition of Sports in India; at **Workshop at SAI** Hostel Dharamshala (28th Feb. 2015).
- **Special Lecture:** NSS Camp at GSSS, Dughiyari, **Gaggal, Kangra:** Life and Teachings of Sw. Vivekananda (21.11.2014).

- **Invited Lecture:** Education & Science in Ancient India; Regional Centre Dharamshala, HPU.
- **Talk:** Ancient India: The light House of Knowledge; delivered at INACS09 Conference in Delhi University on 27th November 2009.
- **Invited Lecture:** Vedic Civilization and Science; organized by Hindu Community of Portugal for the Youngsters (05.11.2006). (Telecasted by the **National TV Channel** of Portugal.)
- **Invited Lecture:** India: The Cradle of World Civilizations; given at the Universidade Lusofona, Portugal (28.10.2006).
- **Invited Lecture:** Scientific Dating of Janmashtami, Mahabharat, and Discovery of Dwaraka; given at Lisbon ISKCON Center, on the eve of Krishna Janmashtmi (16.08.2006).
- **Talk:** Science in Vedas; delivered at three days' workshop at Sujampur Tira (HP) on 2nd November 2009.
- **Invited Lecture:** Science in Ancient India; Sarswati Vidya Mandir Samiti of Karsog on 25th June 2008 (3+).
- **Invited Lecture:** Vedic Science; Govt. College Kullu, Govt. College Karsog, Sarswati Vidya Mandir Karsog, Govt. Sr. Sec. School Teban, Govt. Sr. Sec. School Karsog.
- **Talk:** Science, Religion and Truth; Orientation Course for College and University Lecturers at Academic Staff College, HP University Campus, Shimla (1999).
- **Talk:** Bharat Upgrah Ke Kshetar Mein (India in the field of space); All India Radio (AIR) Shimla in June 1996.
- **Invited Lecture:** AIDS: Prevention is the Cure! Delivered to the Students of Govt. College Karsog on the eve of AIDS day celebration on 22nd December 2008.
- **Talk:** Journey into Cosmos and back into Matter; G. C. Karsog for National Science Day Celebration on 6th November 2008.
- **Invited Lecture:** Science and Reality; NSS Students at Govt. College Karsog, Mandi (2000).

Professional Visits, Training, and Participation (Only selected)

- **NEP Orientation: Holistic & Multidisciplinary Education (MMTTC)** online mode CUHP (2-10 February, 2026).
- **Development of e-Content for SWAYAM and Online Programmes**, Two Days Training Workshop by STRIDE, IGNOU (6th -7th February, 2025).
- **Two-Days Workshop on IKS in context of NEP-2020** at IUAC Delhi (11th -12th July 2024).
- **International Conference on Sustainable Development (ICPSD-2024)**, CU Jammu (4th -5th April, 2024).
- **Three Days Workshop on Comprehensive History of Himachal Pradesh**, TRISS, Neri (16th -18th February,

2024).

- **Two Days National Workshop on NEP-2020: Model Curriculum in Physics- Vision towards Vishvaguru through Bharatiya Languages**, NITTTR, Chandigarh (8th February 2024).
- **Mind, Brain and Consciousness Conference** at IKS-MHAC, IIT Mandi (14th - 16th December, 2023).
- **The International Conference on Beyond Standard Model (BSM-2023)** at Hurgada, Egypt (6th -9th November 2023).
- **Workshop on Introduction to Traditional Knowledge Intellectual Property & People's Rights** (online) by IKS Division and TKDL, Mo-ST (7th - 11th August 2023).
- **Mentor** for the Young Faculty Members of UGC system, by NITTTR Chandigarh (Jan. 2021).
- **IP Awareness/ Training Program** under National Intellectual Property Awareness Mission (NIPAM) (9th Feb., 2022) by Intellectual Property Office, India.
- **National Workshop on Vedic Mathematics** (8th - 12th Nov., 2021) by Center for Vedic Mathematics and Department of Mathematics, CUHP.
- **Vidyarthi Vigyan Manthan (VVM)** State Level Prize Distribution Function by VIGYASA at NIT Hamirpur (14th March 2021, 30 April 2022).
- **Member**, various Screening and Selection Committees at CUHP, Dharamshala.
- **Member**, various Screening and Selection Committees outside the university.
- **National Seminar** on Swatantra Sangram Mei Himachal Pradesh ka Yogdan, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur (14th – 15th Feb., 2021).
- **Distt. Level Sc. Exhibition & Project Competition** as a Judge under Inspire awards 'Manak' December 2020, January 2021.
- **Distt. Level Sc. Exhibition & Project Competition** as a Judge under Inspire awards 'Manak' December 2019, January 2020.
- **Brain Storming Session**, STIP policy draft; Nominated Member by the Vice-Chancellor organized by HIMCOSTE, March 2021.
- **Role of Teachers in National Education Policy (NEP)**; CUHP/NITI AYOGE/ Bhartiya Shikshan Mandal, February 2021.
- **IISF2020**: Young Scientists' Conference December/2020, 6th India International Science Festival, 22nd - 25th December 2020.
- **Online Orientation Training for Mentors** for the Non-Technical Higher Education Institutions/ Universities by NITTTR Chandigarh (18th – 28th Jan., 2021).
- **Conference on Science: Emerging Scenario and Future Challenges (SESFC-2018)**, NIT Hamirpur, 2018.

- **3rd Himachal Pradesh Science Congress**, IIT Mandi, 2018.
- **3rd world Ved Vigyan Samelan** at Deccan College Pune (10th Jan.-13th Jan., 2018).
- **Associate Visits** (Since 2010 -) **IUCAA, Pune**.
- **Flying Squad In charge**, HPTU End Semester Exams (Dec. 2017).
- **Rashtriya Abhyas Varg**, Vijnana Bharati at Bhuvneshwar (9-11th, Dec. 2017).
- **Judge for DST-Inspire**, Central School Dharamshala Cantt. (2017).
- **International Conference** on Science: Emerging Scenario & Future Challenges at Dharamshala (SESFC-2016).
- **One Week FDP** (9th-15th June, 2016) on Emerging Trends of ICT in Higher Education at **CUHP**.
- **Two Day Workshop** (4th -5th April, 2016) on Experimental Physics at **CUHP**.
- **National Seminar** (29th -30th March 2016) on Skill Development in Higher Education at **CUHP**.
- **Workshop** in Computerization Experiments in Physics (17th -19th March 2016) at **CUHP**.
- **CUHP-IUCAA-DST Sponsored Two Week School** (29th Feb.-12th March, 2016) on Gravitation and Astro particle Physics at **CUHP**.
- **Workshop** (8th January, 2016) on Open Educational Resource Policy (OER) at **CUHP**.
- **Workshop** in Physics Education (16th -18th October 2016) at **CUHP**.
- **National Seminar** on Lok-Gathaon Me Itihaas (2nd Oct.-4th Oct. 2015), Th. Jagdev Chand Shodh Sansthan, Neri, Hamirpur.
- **National Conference** on 'Emerging Scenario & Future Challenges-III' (11th -12th April, 2015) at Ballabh **PG College Mandi**.
- **International Science Congress** (1st -2nd May 2015) at Maharaja Agrasen University (**MAU**) **Baddi, SOLAN, INDIA**.
- **National Conference** on 'Emerging Scenario & Future Challenges-III' (11th-12th April 2015) at Ballabh **PG College Mandi (HP)**.
- **National Seminar** on Environmental Degradation and Natural Resource Management in Western Himalayas (20th -21st Feb.2015) at **Govt. College Nalagarh, Solan**.
- **National Seminar** on Recent Trends on Materials, Energy and Environment (18th Jan. 2014) at **Sri Sai**

University Palampur.

- **National Seminar** on Natural Resource Management: Present needs and our Common Future (29th – 30th March 2014) at Maharaja Agrasen University (**MAU**) **Baddi, Solan.**
- **Workshop** on Light from Dark Side of Universe (17th-20th March, 2015) at Banaras Hindu University (**BHU**), **Varanasi (UP).**
- **National Science Day** celebration function, Dept. Of Physics & Astronomical Science, **CUHP.**

- **One Day Symposium: Bhartiya Kal-Ganana ke Vaigyanik Sandarbh**, Th. Jadevchand Shodh Sansthan Neri, Hamirpur.

- **One Week Workshop** on Analytical Aspects of Dynamics (11th -17th Nov., 2014), Mathematical Society & Department of Mathematics, **CUHP: Neutrino Oscillations.**
- **National Workshop** on Status of Natural Hazards in Western Himalayas (6-8th Nov. 2014), at **CUHP.**
- **1st Himachal Pradesh Science Congress** (15th October 2014): Role of Science & Technology in Sustainable Development, **Shimla, HP.**
- **Colloquium Series** (28th October 2013) of Physics: **Making of Hologram**; Dept. Of Physics & Astronomical Science, **CUHP.**
- **Colloquium Series of Physics Series** (26th August 2013) of Physics: **Science in Ancient India**; Dept. Of Physics & Astronomical Science, **CUHP.**
- **Refresher Course** in IT (April 2-21, 2012) from UGC-Academic Staff College, **HPU Shimla.**
- **Refresher Course** in Physics (Feb. 6- March 2, 2012) from UGC-Academic Staff College,

JNU New Delhi.

- **Three Day Workshop** (Nov. 21-23, 2011) on Community Based Disaster Management and Plan at Community Hall, Karsog, Mandi (HP)- Organized by **HIPA, Fairlawn's, Shimla-12.**
- **Three days Symposium** (Nov. 2-4, 2009) on Historical Study of Katoch Vansh at **Sujanpur Tira (HP).**
- **International Conference** (NuGoa09 April 08-14, 2009) of Neutrinos at International Centre Goa, **INDIA.**
- **Visit** (Sept. 19 - 26, 2007) to Center for Theoretical Studies (CTS), Indian Institute of Technology (IIT) Kharagpur, West Bengal, **INDIA.**
- **Visit** (August 21 - 29, 2004) to Theory Division at CERN in Switzerland, **GENEVA.**
- **International School** on Neutrino Physics and Astrophysics (NEUPAST) (Sept. - Oct., 2002) at International Center for Theoretical Physics (ICTP), Trieste, **ITALY.**
- **International summer school** (June-July, 1999) on particle physics at International Center for Theoretical Physics (ICTP), Trieste, **ITALY.**

- **Mini-school** (Feb., 1997) on cosmology in Lucknow University Uttar Pradesh, INDIA.
- **INDO-FRENCH school** (Jan.-Feb., 1995) on large scale structures in the universe in IUCAA, Pune, INDIA.
- **UGC-IUCAA joint school** (Nov.-Dec., 1994) on large scale structures in the universe in the University of Mysore, INDIA.
- **5th SERC winter school** (Feb., 1994) on nuclear physics in University of Mysore, INDIA.
- **Two-day workshop** on 'Teaching, Learning & Evaluation' (4-5th February 2011) at Govt. College Karsog, sponsored by University Grants Commission (**UGC**).
- **Visit** (4th -14th January 2011) to Inter University Centre for Astronomy & Astrophysics (**IUCAA**).
- **One-Day workshop** on 'The Role of Open Distance Learning in Knowledge Building Society' (10th Sept. 2010) at GC Karsog, Sponsored by **IGNOU**.
- **One day workshop** (March 26, 2009) on **National Mission on Education** through ICT held in HP University Shimla.
- **Seminars** during a short visit (Sept. 19 - 26, 2007) to Center for Theoretical Studies (CTS), Indian Institute of Technology (**IIT**) **Kharagpur**, West Bengal, INDIA.
- **Indian Association of Physics Teachers (IAPT) Convention & Symposium** (27-29 Oct., 2007), Himachal Pradesh University (**HPU**) **Shimla**, INDIA.
- **A Short-Term Course** on Environmental Hazards (09-13 July, 2007), National Institute of Technology (**NIT**) **Hamirpur**, INDIA.
- **UGC-Academic Staff College** workshop (March 2007) on "Design and Development of Physics Curriculum for Excellence", **Himachal Pradesh University (HPU) Shimla**, INDIA.
- **Seminars** during a short visit (Nov. 17 - 18, 2006) to Physics Department, Indian Institute of Technology (**IIT**) **Kanpur**, Uttar Pradesh, INDIA.
- **2nd Scandinavian Neutrino Workshop** (May 2 - 6, 2006), Alba Nova University Center, Stockholm, **SWEDEN**.
- **2nd Xmas Workshop** of CFTP (Dec. 2005) in Lisbon, **PORTUGAL**.
- **Symposium** in Honor of Gustavo C. Branco (Gustavo Fest 2005) in Lisbon, **PORTUGAL**.
- **International conference** on Frontiers in Contemporary Physics-III (2005) in Vanderbilt University, Nashville, **USA**.
- **1st Xmas Workshop** of CFTP (Dec. 2004) in Lisbon, **PORTUGAL**.

- **International Conference** of Neutrino Physics and Astrophysics (Neutrino'2004) in College De France, Paris, **FRANCE**.
- **International Conference** of Non-Accelerator New Physics (NANP'03) in Dubna, **RUSSIA**.
- **International Conference** of Neutrino Physics and Astrophysics (Neutrino' 2002) in Technical University Munich, **GERMANY**.
- **XIII th DAE high energy physics symposium** (Dec., 1998 - Jan., 1999) in **Punjab University Chandigarh, INDIA**.
- **IVth Young Astronomer's Meet** (YAM'96) in Indian Institute of Astrophysics (**IIA**) **Bangalore, INDIA**.
- **XIth DAE high energy physics symposium** (Dec. 1994 - Jan. 1995) in **Vishva-Bharti University Shantiniketan, INDIA**.

Programmes Organized (Only Selected)

Institutional (as Organizer):

- **Conference Chair**, International Conference cum Round Table on Translational Research and Innovation in beam Technology (ICTRIBT), CUHP (Feb.,13-15 2026).
- **Coordinator**, NEP Orientation: Holistic & Multidisciplinary Education (MMTTC) online mode CUHP (2-10 Feb.,2026).
- **International Conference on the Contemporary Relevance of Bharatiya Philosophy, Culture and Traditions in Modern World** by INK (UlocfK) and STTHM, CUHP (17th June 2025).
- **Campus Director**, a number of seminars, workshops and other academic and cultural programmes in the Shahpur Campus.
- **Chairman/ Director, TRISS Neri**, a number of seminars, workshops and other academic programmes inside and off campus of the Sansthan.
- **Department (DPAS) HoD/ Member**, a number of seminars, workshops and other academic programmes of the Department.
- **Nodal Officer, Panch Pran Pahal**, a number of programs organized in 2024.
- **Nodal Officer, International Yoga Day Celebration**, a number of seminars, Camps and other Health awareness programmes.
- **Vice-President, ViBHA, HP**, a number of seminars, workshops and other academic programmes.
- **Patron, HSCA**, a number of seminars, workshops and other academic programmes.

- **University Main Functions**, e.g. Sports National events, Convocations, etc.
- **Nodal Officer, Swachh Bharat Abhiyan**, a number of workshops, Swachhta Pakhwadas, and other academic programmes.
- **Convenor, VISAKHA (Digital India Mission)**, a number of seminars, workshops and other academic programmes.
- **Provost, CUHP**, a number of seminars, workshops and other academic programmes in the Hostels.
- **Nodal Officer UBA**, a number of social awareness about health, hygiene, environment, energy saving and govt. schemes in the adopted villages of CUHP.
- **Nodal Officer, Ek Bharat Shreshth Bharat**, a number of cultural and Interaction programmes with paired state Kerala.
- **Mentor, Community Connect Project**, a number of survey, meetings and interaction support programmes for the surrounding community.
- **108 Days Yoga Healing Session**, online to the BSc Students and Community (April-May– June 2024).
- **National Seminar on 'Contributions of Himachal in IKS'**, Sanskrit Central Univ. Campus Dehra, 19-20th Oct. 2025.
- **National Workshop** on the Role of Radhanath Sikdar in Freedom Struggle 1st November 2022.
- **Radhanath Sikdar popularization** Curtain Raiser and Satellite Programs: 93 programmes in Himachal Pradesh (2022).
- **Vidyarthi Vigyan Manthan (VVM)** State Level Prize Distribution Function by VIGYASA at NIT Hamirpur (14th March 2021, 30 April 2022).
- **National Workshop on Vedic Mathematics** (8th - 12th Nov., 2021) by Center for Vedic Mathematics and Department of Mathematics, CUHP.
- **Online International Conference** on Theoretical Aspects of Nuclear Physics by CUHP (February 2021).
- **International Yoga Day**: 21st June (2015, 2016, 2017, 2018, 2019, 2020, 2021)
- **Chairman, Yog Dhara Club**, a number of seminars, workshops and other academic programmes.
- **51 Days Yoga Camp**, online under Yogdhara and CUHP (2 May – 21 June 2021).
- **Ek Bharat Shreshth Bharat** Cultural Exchange Program CU Kerala Group Feb., 2020.
- **Ek Bharat Shreshth Bharat** Cultural Exchange Program CU HP Group January 2020.
- **National Workshop** In Silico Approach for Modeling New Materials at CUHP (14th Jan. – 19th January, 2019).
- **USI-CUHP National Conference** at CUHP (8th Nov. – 10th November, 2017).
- **Role of Teachers in National Education Policy** (NEP); CUHP/NITI AYOJ/ Bhartiya Shikshan Mandal,

February 2021.

- **One Week FDP** (9th-15th June, 2016) on Emerging Trends of ICT in Higher Education at **CUHP**.
- **Two Day Workshop** (4th -5th April, 2016) on Experimental Physics at CUHP.
- **National Seminar** (29th -30th March 2016) on Skill Development in Higher Education at CUHP.
- **Workshop** in Computerization Experiments in Physics (17th -19th March 2016) at CUHP.
- **CUHP-IUCAA Two Week School** on Gravitation and Astroparticle Physics at CUHP (29th Feb.-12th March, 2016).
- **President, Patanjali Yog Samiti, Karsog**, a number of yoga and social awareness camps in the villages of Karsog and surrounding area.
- **IGNOU Coordinator**, motivational programmes on Open and Distance Learning targeting to the poor & deprived section of the society in the rural area of Himachal Pradesh.
- **World Spiritual Conference** to be held on 14th -16th March, 2012 as International Coordination Committee member, Funded by Dept. of Higher Education, Govt. of Haryana (INDIA).
- **Two-Day Workshop** (24th-25th Dec., 2011): History and Folklores of Temples of Karsog Area.
- **Two-Day Workshop** (4th-5th Feb., 2011): Competence Building: Teaching, Learning & Evaluation and Office Procedure, Funded by UGC.
- **One Day Silver Jubilee Workshop** (10th Sept., 2010): The Role of Open Distance Learning in Building Knowledge Society, Funded by IGNOU.
- **Hindi Divas** (14th Sept., 2010): Popularization of Hindi as the National Language, Funded by IGNOU.
- **National Science Day/ Science Function(s)** every year since (1998-2001 and 2006-2010); Funded by State Science, Technology & Environment Department, Shimla (HP).
- **Career Counseling** Programmes time to time.
- **Science Popularization** Shows to the Secondary level students.
- **Seminars** on Vedic Science and Ancient Wisdom.
- **Organic Farming**& other traditional techniques for Agriculture and Horticulture.

Teaching (24 Years+)

- CDOE Course Development and Course Co-ordinator of Indian Knowledge Systems
- Quantum Mechanics
- Nuclear and Particle Physics

- Interactions of Elementary Particles
- Quantum Field Theory
- Accelerator and Reactor Physics
- History and Philosophy of Science
- Earth Science System
- Science of Yoga
- Indian Knowledge System and Practices
- Vedic Physics
- Bharatiya Kal Ganana
- Community Connect
- Physics of UG Classes of Physics.

Doctoral Thesis Supervision

- **Awarded (06)**
 - **In Progress (03)**
 - M.Phil. Thesis (03)
 - Masters' Degree and other Research Projects (50+)
 - Ph.D. Thesis Evaluation (6+)
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Research Projects and Income

- UGC-Major Research Project (2015-2018) as PI (11.7 Lacs).
- Project under Unnat Bharat Abhiyan (UBA 1.0), (2017-18) as PI (3.5 Lacs).
- UGC-Major Research Project (2009-2011) as Co-PI (8 Lacs).

Publications: 150+

Books/ Reports/ Proceedings

- **History and Culture of Science in Bharata Vol.-I**, Garuda Prakashan, New Delhi (2024); p460.
- **History and Culture of Science in Bharata Vol.-II**, Garuda Prakashan, New Delhi (2024); p484.
- **A Textbook on the Knowledge System of Bharata**, Garuda Prakashan, New Delhi (2023), p457.
- **A Report: Shodh Sansthan ke Vividh Ayam-2** (on the current year activities of Neri Shodh Sansthan) 2022 as **Chief-Editor**.

- **The Vision of NEP2020: Integrating Bharatiya Knowledge System in Physics**
Textbooks, IBKS Series, Drafting Committee Member, Vidya Bharati Uchcha Shiksha Sansthan (2023).
- **Guidelines of NEP2020 adopted by CUHP** (Vice-Chairman of the Committee) in 2022: With this document, CUHP became the Leading University of the Country to implement NEP-2020.
- **Mentor/ Expert**, Itihas Diwakar, Peer Reviewed Bi-Annual Research Journal, Neri Shodh Sansthan.
- **Proceedings**: Two Day Workshop on Teaching, Learning & Evaluation and Office Procedure; Sponsored by UGC (2010).
- **A Monograph**: “An Essence of Hinduism”; Dedicated to NRI Hindus (2006).
- **Monthly Magazine**: First Competition Magazine of Himachal Pradesh: *Him Competition Vision* (05 Issues Published). (Publisher and Editor-in-Chief) (1996-97).

Papers/ Chapters/ Arxivs/ Abstracts

i) Papers with Impact Factor 5 and above: 14

- Predictive one zero texture with vanishing sub-trace in neutrino mass matrix in light of dark matter and neutrinoless double beta decay.
Ankush, Sangeeta Dey, Rishu Verma, Manoj Kumar, B. C. Chauhan and Mahadev Patgiri; Physics of Dark Universe 51 (2026), Impact Factor = 6.4
- Type-III Seesaw in Non-Holomorphic Modular Symmetry and Leptogenesis.
Priya, Labh Singh, **B. C. Chauhan**, Surender Verma; JHEP 1607 (2026) 075; *Impact Factor=6.22*.
- TeV scale Leptogenesis with a triplet fermion in connection to the muon $g-2$.
Simran Arora, Devabrat Mahanta and **B.C. Chauhan**; Phys. Rev. D 111 (3) 035004 (2025). *Impact Factor 5.3*.
- Dark Matter and Muon ($g - 2$) from a Discrete Z_4 Symmetric Model.
- Simran Arora and **B. C. Chauhan**; LHEP 512 (2024). *Impact Factor = 5.5*.
- Leptogenesis and neutrinoless double beta decay in the scotogenic hybrid textures of neutrino mass matrix.
Ankush, Rishu Verma, Sahil Kumar and **B. C. Chauhan**; JCAP 08 (2023). *Impact Factor = 5.9*.
- Dark matter and $(g-2)_{e,u}$ in ISS(2,3) based Gauged $U(1)_{Le-Lu}$ symmetric model; Phys. Rishu Verma, Ankush and **B. C. Chauhan**; Phys. Dark Univ. 42 (2023). *Impact Factor = 6.4*.
- Muon $(g-2)$ & W - boson mass Anomaly in a Model based on Z_4 symmetry with vector like fermion. Simran Arora, Monal Kashav, Surender Verma, **B. C. Chauhan**, PTEP 113B06 (2022). *Impact factor = 7.49*.
- Scalar dark matter in the A_4 -based texture one-zero neutrino mass model within the inverse seesaw mechanism.
Rishu Verma, Monal Kashav, Surender Verma, and **B. C. Chauhan**; PTEP123B01 (2021). *Impact Factor=7.49*.
- Quark-Lepton Complementarity predictions for θ_{23}^{PMNS} and CP violation.
Gazal Sharma and **B. C. Chauhan**; JHEP 1607 (2016) 075; *Impact Factor=6.22*.
- ${}^7\text{Be}$ neutrino signal variation in KamLAND.

- **Bhag C. Chauhan**; JHEP 02 (2006) 035; *Impact Factor*=6.22
- Low energy solar neutrinos and spin flavor precession.
Bhag C. Chauhan and Joao Pulido and R. S. Raghavan; JHEP 07 (2005) 051; *Impact Factor*=6.22.
- SNO, SuperKamiokande data, antineutrinos and sterile neutrinos.
Bhag C. Chauhan and Joao Pulido; JHEP 12 (2004) 040; *Impact Factor*=6.22.
- LMA and sterile neutrinos: a case for resonant spin flavor precession?
Bhag C. Chauhan and Joao Pulido; JHEP 06 (2004) 008; *Impact Factor*=6.22.
- Neutrino mass matrices with vanishing determinant.
Bhag C. Chauhan, Joao Pulido and Marco Picariello; Phys. Rev. D73 (2006) 053003; *Impact Factor*=5.3.
- KamLAND, solar antineutrinos and the solar magnetic field.
Bhag C. Chauhan, Joao Pulido and E. Torrente-Lujan; Phys. Rev. D68 (2003) 033015; *Impact Factor*=5.3.
- Resonant Spin Flavor Precession of solar neutrinos after SNO NC data.
Bhag C. Chauhan and Joao Pulido; Phys. Rev. D66 (2002) 053006; *Impact Factor*=5.3.
- RSFP constraints on neutrino parameters and solar magnetic fields from solar neutrino data. **B. C. Chauhan**, U.C. Pandey and S. Dev; Phys. Rev. D59 (1999) 083002; *Impact Factor*=5.3.

ii) Papers with Impact Factor between 2 and 5: 29

- Leptogenesis assisted by triplet Fermion in connection to Muon $g-2$.
Simran Arora, Devabrat Mahanta and **B.C. Chauhan**; Proceedings of the XXVI DAE-BRNS High Energy Physics (HEP) Symposium 2024 19-23 December, Varanasi, India, *Springer Proc.Phys.* 432 (2026) 223-226.
https://doi.org/10.1007/978-981-95-1513-4_49.
- Leptogenesis and Muon ($g-2$) from vector like fermion triplet.
Simran Arora, Devabrat Mahanta and **B.C. Chauhan**; Proceedings of the 17th International Conference on Interconnections Between Particle Physics and Cosmology 2024 14-18 October, IIT Hyderabad, India *Springer Proc.Phys.* 322 (2026) 423-428.
https://doi.org/10.1007/978-981-96-4986-0_69.
- Investigating One Zero Texture in Neutrino Mass Matrix with Generalized CP Symmetry. Priya , Simran Arora, and **B. C. Chauhan**, Proceedings of the XXVI DAE-BRNS High Energy Physics (HEP) Symposium 2024 19-23 December, Varanasi, India *Springer Proc.Phys.* 432 (2026) 1298-1302.
https://doi.org/10.1007/978-981-95-1513-4_296.
- Generalized CP Symmetry and Texture Zero in Trimaximal Mixing Matrix.
Priya , Simran Arora, and B. C. Chauhan; Proceedings of the 17th International Conference on Interconnections Between Particle Physics and Cosmology, 2024 14-18 October, IIT Hyderabad, *Springer Proc.Phys.* 322 (2026) 397-400.
https://doi.org/10.1007/978-981-96-4986-0_64.
- Muon Anomalous Magnetic Moment and Neutrino Mass in $U(1)_{L\mu-L\tau}$ Extended Scotogenic Model. Simran Arora, Monal

Kashav, Surender Verma, **B.C. Chauhan**; Springer Proc.Phys. 304 (2024)

713-715, Jul 17, 2024, https://doi.org/10.1007/978-981-97-0289-3_171.

- Scotogenic Bounds on Dirac CP Phase Consistent with Neutrinoless Double Beta Decay in Hybrid Texture of Neutrino Mass Matrix.
Ankush, R. Verma, and **B. C. Chauhan**; Springer Proc. Phys. 304 (2024) 834-836, Jul 17, 2024, https://doi.org/10.1007/978-981-97-0289-3_211.
- Electron and Muon $(g-2)_{e,\mu}$ Anomalous Magnetic Moment in $U(1)_{Le-L\mu}$ Symmetry Model.
R. Verma, Ankush, **B. C. Chauhan**; Springer Proc. Phys. 304 (2024) 1300-1302, Jul 17, 2024, https://doi.org/10.1007/978-981-97-0289-3_371.
- Muon $(g-2)$ in $U(1)_{Le-L\mu}$ Scotogenic Model Extended with Vector like Fermion.
Simran Arora, Monal Kashav, Surender Verma, **B. C. Chauhan**, Physica Scripta 98 (2023), *Impact Factor*– 2.6.
- Scotogenesis in hybrid textures of neutrino mass matrix and neutrinoless double beta decay. Ankush, Monal Kashav, Surender Verma, **B. C. Chauhan**; PLB 824 (2022) 136796. *Impact Factor*=4.77
- CP Phase Analysis Using Quark-Lepton Complementarity Model in 3+1 Scenario.
Gazal Sharma, **B. C. Chauhan** and Surender Verma; XXIII DAE HEP Symposium (pp 1087-1092) May 2021.
- Quark-lepton complementarity model-based predictions for θ_{23}^{PMNS} with neutrino mass hierarchy. Gazal Sharma, Shankita Bhardwaj, **B. C. Chauhan** and Surender Verma; XXII DAE-HEP Symp. Springer Proc. in Physics 203 [Part of Springer Nature; Peer Reviewed, 2018]
- Search for Sterile Neutrino Signal in the 7Be Solar Neutrino Measurement with KamLAND.
Ashish Sharma, Govind Singh, Gazal Sharma, Shankita Bhardwaj, Surender Verma and **B. C. Chauhan**; XXII DAE-HEP Symp. Springer Proc. in Physics 203 [Part of Springer Nature; Peer Reviewed, 2018].
- Bounds on Sterile Neutrino Component in the Solar Neutrino Flux.
Govind Singh, Ashish Sharma, Gazal Sharma, Shankita Bhardwaj, Surender Verma and **B. C. Chauhan**; XXII DAE-HEP Symp. Springer Proc. in Physics 203 [Part of Springer Nature; Peer Reviewed, 2018].
- Probing CP Violation in Neutrino Oscillation Experiments and Leptonic Unitarity Quadrangle. Surender Verma, **B. C. Chauhan**, Shankita Bhardwaj and Gazal Sharma; XXII DAE-HEP Symp. Springer Proc. in Physics 203 [Part of Springer Nature; Peer Reviewed, 2018].
- A New Paradigm of Science.
B. C. Chauhan; Int. J. Rec. Sc. Studies 6 (3), 2912 (2015); ISSN 0976-3031; *Impact Factor*=3.908
- Computational Holographic Imaging using 2D Scalar Wave.
Zoltan Batiz and **Bhag C. Chauhan**; Int. J. Engg. Sc. Res. Tech. 3(8), 584 (2014); ISSN 2277-9655; *Impact Factor*=3.449.
- Quark-Lepton Complementarity, neutrino and standard model data predict $\Theta_{PMNS} = 9^\circ$.
Bhag C. Chauhan, Marco Picariello, Joao Pulido and E. Torrente-Lujan; Euro. Phys. J. C50 (2007) 573; *Impact Factor*=2.8.

- Two Gallium data sets, spin flavour precession and KamLAND.
Bhag C. Chauhan, Joao Pulido and Marco Picariello; J. Phys. G: Nucl. Part. Phys. 34 (2007) 1803;
Citations: 4, Impact Factor=2.84.
- Gallium data variability and KamLAND.
Joao Pulido, **Bhag C. Chauhan** and Marco Picariello; Nucl. Phys. Proc. Suppl. 168 (2007) 137;
Citations: 2, Impact Factor=3.95.
- Bounds on antineutrinos and sterile neutrinos from SNO and Superkamiokande data.
J. Pulido and **Bhag C. Chauhan**; Nucl. Phys. B (Proc. Suppl.) 145 (2005) 145; *Citations: 3, Impact Factor=3.95.*
- Time modulations and sterile neutrinos.
Bhag C. Chauhan and Joao Pulido; Nucl. Phys. B (Proc. Suppl.) 143 (2005) 488; *Impact Factor=3.95.*
- MSW constraints on the matter density profiles in the solar interior.
S. Dev, Jyoti Dhar Sharma and **B. C. Chauhan**; Nucl. Phys. B (Proc. Suppl.) 118 (2003) 456; *Impact Factor=3.95.*

iii) Papers with Impact Factor less than 2: 08

- Embedding Generalized CP Symmetry in One Zero Texture Neutrino Mass Models
Priya, Simran Arora, and **B. C. Chauhan**, IJMPA, 41 (2026) 09, 2650061.
- The eV-Scale Sterile Neutrino and Neutrinoless Double Beta Decay.
Priya, Simran Arora, and **B. C. Chauhan**; Physics of Particles and Nuclei Letters 22, (5), 1227 (2025).
- Investigating Sterile Neutrino Flux in the Solar Neutrino Data.
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Social:

- Baal-Vridh Ashram Talyahar, Mandi (HP).
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Professional:

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Others (Life Membership):

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I certify that the information provided is correct to the best of my knowledge.

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