

**Name :** Dr. Gulshan Mahajan

**Designation :** Assistant Professor in Physics

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**Qualification:** M.Sc Physics, Ph.D in Astro-nuclear physics

**Teaching experience:** As Lecturer (school cadre) from 19.11.1999 to 19.06.2006 and As assistant Professor (College Cadre) from 20.06.2006 to till date

Additional charges: Officiating Principal

**Research Papers :**

S.No	Title with page No	Journal	ISSN/ISBN No/Impact Factor	Whether Peer reviewed	No of Co-author
1.	Properties of static limit and rotating equilibrium sequences of compact stars: Systematic correlations and constraints Volume: 836, Pages: 183-197	Nuclear Physics A	1.683	Yes	2
2.	Temperature and density dependence of asymmetric nuclear matter and protoneutron star properties within an extended relativistic mean field model Phys. Rev. C 84, 045804	Physical Review C	3.09	Yes	1
3	Parametric relationship between properties of static limit and rotating equilibrium sequences of compact stars Volume : 55, Pages:456-457	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-065-6	Yes	2
4	Nuclear matter equation of state at finite temperature within Extended relativistic mean field model Volume : 55, Pages:458-459	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-065-6	Yes	1
5	Protoneutron star within the extended field theoretical model Volume : 55, Pages:460-461	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-065-6	Yes	1
6.	Nuclear matter properties at finite temperature within extended relativistic mean field model Volume : 56, Pages:696-697	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-066-6	Yes	1
7.	Effect of temperature on Keplerian velocity of protoneutron star within extended field theoretical model Volume : 56, Pages:722-723	Proceedings of DAE Symposium on Nuclear	ISBN-81-8372-066-6	Yes	1

		Physics			
8.	Properties of rotating protoneutron star within the extended field theoretical model Volume : 56, Pages:724-725	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-066-6	Yes	1
9.	Imperial relationship in the properties of static and rotating protoneutron star Volume : 57, Pages:614-615	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-067-6	Yes	1
10	Properties of rotating protoneutron star within the extended field theoretical model Volume : 57, Pages:616-617	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-067-6	Yes	1
11	Low density equation of state of symmetric and assymetric nuclear matter within an extended relativistic mean field model Volume : 58, Pages:814-815	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-070-6	Yes	1
12	Properties of rotating protoneutron star having keplerian frequency within the extended field theoretical mode Volume : 59, Pages:806-807	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-072-6	Yes	1
13	Constraints on EOS from recently observed massive neutron stars Volume : 60, Pages:886-887	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-077-3	Yes	1
14	Density and temperature dependence of symmetry energy and incompressibility within relativistic mean field model, Volume : 61, Pages:908-909	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-0708-6	Yes	1
15	Properties of rotating compact star within Extended Relativistic Mean Field Model Volume : 62, Pages:710-711	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-081-1	Yes	2
16	Correlation in the Properties of Static and. Rotating Compact Star within Extended Relativistic Mean Field Model Volume : 62, Pages:722-723	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-081-1	Yes	2
17	Mass and. Radius of rotating Protoneutron Star with in extended relativistic mean field model and. their corelation with frequency Volume : 63, Pages:804-805	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-082-1	Yes	2
18	Protoneutron Star rotating with keplerian frequency with in relativistic mean field model Volume : 64, Pages:618-619	Proceedings of DAE Symposium on Nuclear	ISBN-81-8372-082-1	Yes	2

		Physics			
19	Study of nuclear shapes of some even nuclei Volume : 66, Pages:272-273	Proceedings of DAE Symposium on Nuclear Physics	ISBN-81-8372-084-1	Yes	4

### **Training Courses and Seminar and workshop**

S.No	Programme	Duration	Organised By
1.	Training Programme on Basic Computer Course	One Week	H.P. institute of Public Adminstration Shimla
2.	Refresher Course in Physics	Three Week	Academic Staff Colleg, HPU Shimla
3.	Science Academies refresher course in Experimental Physics	Two Week	IISER Mohali
4.	Refresher Course in Nanoscience and Nenotechnologies	Three Week	UGC-HRDC, North Eastern Hill University Shillong
5.	Faculty Development Programme	One Week	Government College Karsog
6.	Training Programme on computer interfaced Science Experiments	One Week	Inter University Accelerator Centre New Delhi
7.	In Service Teacher Training Programme	One Week	Government College of Teacher Education Dharamshala
8	The intertwining stands in Physics and Mathematics: Fourier Analysis	One Week	IISER Pune
9.	Faculty Development Programme	One Week	Government College Karsog
10.	Faculty Development Programme on Quantum Physics simulations using Gnumeric worksheets	One week	Central University, Himachal Pradesh and IAPT
11.	Referresher Course in Nuclear and Particle Physics	12 week online	IIT Gowahati through NPTEL
12.	Refresher Course in Experimental Physics	12 week online	IIT Kanpur through NPTEL
13.	Refresher Course in Non-Conventional Energy Resources	12 Week Online	IIT Madras through NPTEL
14	Refresher Course in Solid State Physics	12 Week Online	IIT Kharagpur through NPTEL
15	Refresher Course on Pedagogical Innovations	16 week online	Guru Jambheshwar University of Science and Technology Hissar

	and Research Methodology		through SWAYAM ARPIT
16	Refresher Course on Climate Change : A guide for Teachers of all disciplines	16 week online	IISER Pune through SWAYAM ARPIT
17	Refresher course in Physics	Two week	Teaching Learning centre, Ramanujan College, University of Delhi
18	Faculty Development Programme on Implimentation of NEP-2020 for University and College Teachers	One Week	IGNOU New Delhi
19	Orientation Programme	Four Week	Academic Staff College HPU Shimla
20	Faculty Development Programme	One Week	Government College Karsog
21	In Service Teacher Training Programme	One Week	Government College of Teacher Education Dharamshala

#### **Papers in Conferences/ Seminars/WorkShops**

S.No.	Title of Paper Presented	Title of Conference/Seminar	Organised by	Wheather National/International
1.	Science of Nature	National Conference on Rethinking the Himalyas : its scope and Protection	Government College Karsog	National

#### **Invited Lectures**

Sl.No	Title of Lecture	Title of Conference/Workshop	Organised by	National/International
1.	Constraints on EOS from recently observed Massive Neutron Stars	A Workshop on Frontiers in Physics	Department of Physics, Himachal Pradesh University Shimla	National

**Membership: Lifetime member of AIPTA**

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