

PERSONAL INFORMATION

Bijan Saha

[All CV headings are optional. Remove any empty headings.]



📍 Laboratory of Information Technologies
Joint Institute for Nuclear Research, Dubna, Russia
and
Institute of Physical Research and Technologies
RUDN University, Moscow, Russia

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✉ bijan@jinr.ru

🌐 <http://spinor.bijansaha.ru>

💬 Skype bijan64

Sex M | Date of birth 02/01/1964 | Nationality Russian

POSITION WITHIN THE GRANT/PROJECT

Coordinator

WORK EXPERIENCE

Leading

[Add separate entries for each experience. Start from the most recent.]

Replace with dates (from - to)

Leading Research Fellow – 12.2010 – Current
(LIT, JINR, Dubna, <http://www.jinr.ru>)

Associate Professor – 01.2018 – Current
(Institute of Physical Research and Technologies, Faculty of Science, Russian People's Friendship University, Moscow, Russia, <http://www.rudn.ru>)

Senior Research Fellow - 10.2001 – 12.2010
(LIT, JINR, <http://www.jinr.ru>)

Stipendent – 10.1999 – 10.2001
(LIT, JINR, <http://www.jinr.ru>)

Stipend – 05.1994 – 10.1999
(BLTP, JINR, <http://www.jinr.ru>)

Associate Professor – 2001 – 2002 (Department of Experimental Physics, Russian Peoples' Friendship University, Moscow, Russia <http://www.rudn.ru>)

Associate Professor – 2007 (Department of Higher and Applied Mathematics, University of Dubna, Dubna, <http://uni-dubna.ru>)

- The main activities were related to study the problem of modern cosmology with spinor field. Beside this I have also worked in the field of electrodynamics, general relativity and symmetry in physics

EDUCATION AND TRAINING

[Add separate entries for each course. Start from the most recent.]

Replace with dates (from - to)

M.Sc. in Theoretical Physics (Russian Peoples' Friendship University, Moscow, Russia, 1984 – 1989, <http://www.rudn.ru>)

Replace with EQF (or other) level if relevant

Ph.D. in Theoretical Physics Physics (Russian Peoples' Friendship University, Moscow, Russia, 1991 – 1993, <http://www.rudn.ru>)

„Multidimensional solitons in nonlinear models with gravitation”

D.Sc. in Theoretical Physics (2010)

„Spinor fields in anisotropic cosmology”

- Soliton modles of Atom, Electrodynamics with toroid moments, Solitons in General Relativity, Symmetries in Physics, Anisotropic Cosmological Modles with Spinor Field, Dark Energy

PERSONAL SKILLS

[Remove any headings left empty]

Mother tongue(s) Bengali

Other language(s)

Replace with language

Replace with language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English and Russian	English and Russian	English and Russian	English and Russian	English and Russian	English and Russian
	Replace with name of language certificate. Enter level if known.				
Enter level	Enter level	Enter level	Enter level	Enter level	Enter level
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills

- Have a quite good communicational skill. Worked in different positions in many social organizations. Organized more than 10 personal photo exhibitions. Regularly take part in many cultural functional in Dubna and Moscow.

Organisational / managerial skills

- Participated in different capacities to solve many problems of Bangladeshis living in Moscow. Participated in different meetings with Bangladesh Embassy.

Job-related skills

- Good knowledge in Windows, Latex, Maple, Photoshop and many others related to my job.

Digital competence

	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
Enter level	B1	B1	A1	B1	

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Replace with your other computer skills. Specify in what context they were acquired.
Example:

- good command of office suite (word processor, spread sheet, presentation software)

- good command of photo editing software gained as an amateur photographer

- Other skills
- Photography (have more than 10 personal Photo exhibitions), Writings (Essay, stories, popular books on cosmology in Bengali, English, Russian)

ADDITIONAL INFORMATION

Ids in other cites

Scopus Author ID: 7202946069

Web of Science ResearcherID: E-6604-2018

Google Scholar ID: BU1tahAAAAAJ

Orcid ID: 0000-0003-2812-8930

SPIN Code: 9803-5325

<https://scholar.google.com/citations?hl=en&user=BU1tahAAAAAJ>

https://www.researchgate.net/profile/Bijan_Saha3

<https://jinr.academia.edu/BijanSaha>

<https://publons.com/researcher/1588547/bijan-saha/>

<https://www.mendeley.com/profiles/bijan-saha2/>

<https://orcid.org/0000-0003-2812-8930>

Seminars Took part in 31 Russian and International Conferences
Memberships Gave talks in 20 seminars in Russia, Romania, Bangladesh, India
Citations Member of American Mathematical Society
Index Hirsch More than 1325 citations (<https://www.researchgate.net>)
Presentations 19 (Scopus), 14 (Web of Science)
 Gave invited talk in many Institutes in Russia, Bangladesh, India, UAE
 Some recent titles are

[1] „Influence of spinor field on space-time geometry”
 Peoples` Friendship University, Moscow, Russia " (2016).

[2] „ f(R,T) theory of gravity: Some remarks „
 Peoples` Friendship University, Moscow, Russia " (2016).

[3] „ Role of spinor field in the evolution of the Universe”
 New York University, Abu Dhabi, UAE, (2015).

[4] „Dark Energy: A New Chapter of Modern Cosmology”
 New York University, Abu Dhabi, UAE, (2015).

[5] „ Spinor field and anisotropic cosmological models”
 Indian Statistical Institute, Kolkata, India, (2014).

[6] „ Spinor field in cosmology and problem of initial
 singularity, isotropization and late-time acceleration”
 Science College, Calcutta University, Kolkata, India, (2014).

[7] „ Spinor description of material fields and its role in Cosmology”
 Tata Institute of Fundamental Research, Mumbai, India, (2014).

[8] „ Spinor field in cosmology: Problems and Possibilities”
 Institute of Physics, Bhubaneswar, India, (2014).

[9] „ Cosmology with Spinor field: Advantages and Disadvantages”
 Harish-Chandra Research Institute, Allahabad, India, (2014).

[10] „ Modern Cosmology: History of Cosmological Constant „
 Atomic Energy Commission, Savar, Bangladesh, (2014).

[11] Spinor description of Dark Energy
 Indian Association for Cultivation of Science, Kolkata, India, (2014).

[12] Nonlinear spinor field in anisotropic cosmology: A fresh look”
 Center for Theoretical Physics, Jamia Millia Islamia,
 New Delhi, India, (2014).

[13] „ Spinor field in Cosmology and the problem of isotropization”
 Institute of mathematical Sciences, Chennai, India, (2014).

Publications

172 publications with 107 in Peer Review Journals. Full list of publications can be found in
http://spinor.bijansaha.ru/pinfo/pub_list.pdf Some recent publications are

[1] Bijan Saha: Spinor fields in spherically symmetric space-time
 The European Physical Journal Plus 133: 461 (2018) DOI 10.1140/epjp/i2018-12273-9

[2] Bijan Saha: Spinor field in Bianchi type-IX space-time
 Canadian Journal of Physics 96: 1074 - 1084 (2018) DOI 10.1139/cjp-2017-0711

- [3] Bijan Saha: Spinor field nonlinearity and space-time geometry
Physics of Particles and Nuclei 49(2): 146 – 212 (2018) DOI: 10.1134/S1063779618020065
- [4] Bijan Saha: Nonlinear spinor field in non-diagonal Bianchi type space-time
EPJ Web of Conferences 173: 02018 (4 pages) (2018) DOI 10.1051/epjconf/201817302018
- [5] Bijan Saha: Bianchi type-VIII spinor solutions
The European Physical Journal Plus 132: 547 (12 pages) (2017) DOI 10.1140/epjp/i2017-11830-0
- [6] Bijan Saha and Victor S Rikhvitsky: Nonlinear Spinor Fields in LRS Bianchi type-I space-time: Theory and observation
Gravitation & Cosmology 23: 329 – 336 (2017) DOI 10.1134/S0202289317040193
- [7] Bijan Saha: Nonlinear Spinor field in isotropic space-time and dark energy models
The European Physical Journal Plus 131: 242 – 17 (2016) DOI: 10.1140/epjp/i2016-16242-0
- [8] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-VI space-time
The European Physical Journal Plus 131: 170 – 18 (2016) DOI: 10.1140/epjp/i2016-16170-y
- [9] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-III space-time
International Journal of Theoretical Physics 55: 2259 - 2274 (2016) DOI: 10.1007/s10773-015-2864-z
- [10] Bijan Saha: Spinor Field with Polynomial Nonlinearity in LRS Bianchi type-I space-time
Canadian Journal of Physics 96: 116 - 121 (2016) DOI: 10.1139/cjp-2015-0574
- [11] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-V space-time
Chinese Journal of Physics 53: 110114-14 (2015) DOI: 10.6122/CJP.20150713
- [12] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-VI₀ space-time
The European Physical Journal Plus 130: 208 – 13 (2015) DOI: 10.1140/epjp/i2015-15208-0
- [13] Bijan Saha: Interacting Scalar and Electromagnetic Fields in $f(R, \Lambda, T)$ Theory of Gravity
International Journal of Theoretical Physics 54: 3776 - 3787 (2015) DOI: 10.1007/s10773-015-2615-1
- [14] Farook Rahman, Anirudh Pradhan, Nasr Ahmed, Saibal Ray, Bijan Saha and Moshir Rahman:
Fluid Sphere: Stability Problem and Dimensional Constraint I
International Journal of Modern Physics D 24: 1550049 (2015) DOI: 10.1142/S0218271815500492
- [15] Anirudh Pradhan and Bijan Saha: Accelerating Dark Energy Models of the Universe in Anisotropic Bianchi Type Space-Times and Recent Observations
Physics of Particles and Nuclei 46: 310 – 346 (2015) DOI: 10.1134/S1063779615030028
- [16] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-I space-time: Problems and Possibilities
Astrophysics and Space Science 357: 28 (2015) DOI: 10.1007/s10509-015-2291-x
- [17] Anirudh Pradhan, Bijan Saha and Victor Rikhvitsky: Bianchi type-I transit cosmological models with time dependent gravitational and cosmological constants: reexamined
Indian Journal of Physics 89: 503 - 513 (2015) DOI: 10.1007/s12648-014-0612-5
- [18] Bijan Saha, Victor Rikhvitsky and Anirudh Pradhan:
Bianchi type I cosmological models with time dependent gravitational and cosmological constants: an alternative approach
Romanian Journal of Physics 60: 3 – 14 (2015)

- [19] Anirudh Pradhan, Nasr Ahmed and Bijan Saha:
Reconstruction of modified $f(R, \lambda, T)$ with $\Lambda(T)$ gravity in general class of Bianchi cosmological models
Canadian Journal of Physics 93: 654 - 662 (2015) DOI:10.1139/cjp-2014-0536
- [20] Mohd. Zeyauddin and Bijan Saha:
Bianchi type V bulk viscous cosmological models with particle creation in General Relativity
The European Physical Journal Plus 129: 177 (2014) DOI: 10.1140/epjp/i2014-14177-0
- [21] Victor Rikhvitsky, Bijan Saha and Mihai Visinescu:
Magnetic Bianchi type II string cosmological model in loop quantum cosmology
Astrophysics and Space Science 352: 255 - 261 (2014) DOI:10.1007/s10509-014-1890-2
- [22] Bijan Saha: Isotropic and anisotropic dark energy models
Physics of Particles and Nuclei 45: 349 - 396 (2014) DOI:10.1134/S1063779614020026
- [23] Bijan Saha: Nonlinear Spinor Fields in Bianchi type-I space-time reexamined
International Journal of Theoretical Physics 53: 1109 - 1129 (2014) DOI: 10.1007/s10773-013-1906-7

ANNEXES

Replace with list of documents annexed to your CV. Examples:

- copies of degrees and qualifications;
- testimonial of employment or work placement;
- publications or research.