**Personal Profile**

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|  |  | **Dr. Heisnam Shanjit Singh** | |
| **Assistant Professor, Department of Physics** | |
| **Rajiv Gandhi University, Rono Hills, Doimukh** | |
| **Arunachal Pradesh-791112** | |
|  | |
| **Email:** | [**h**eisnam.singh**@rgu.ac.in**](mailto:heisnam.singh@rgu.ac.in) |
|  | [**s**hanjitheisnam**@gmail.com**](mailto:shanjitheisnam@gmail.com) |
|  |  |
| **Phone No.:** | **+917308260563; +917005455471** |

**Educational Profile**

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| Ph.D. | Manipur University, Imphal, Manipur; 2017  Supervisor: Prof. K. Yugindro Singh |
| M.Sc. | Manipur University, Imphal, Manipur; 2008  Subject: Physics  Specialization: Nuclear and Particle Physics |
| B.Sc. | D.M. College of Science, Imphal, Manipur; 2006  Subject: Physics (Honours) |

**Professional Experience**

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| **Assistant Professor**, Department of Physics,  Rajiv Gandhi University, Arunachal Pradesh, India | 08-06-2012-till date |

**Administrative Experience**

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| **Member, Planning Board Committee, Rajiv Gandhi University, Arunachal Pradesh, India** | January, 2021- till date |
| **Faculty Placement Coordinator, Physics, Rajiv Gandhi University, Arunachal Pradesh, India** | February, 2020- till date |
| **Member, DRC, Physics, Rajiv Gandhi University, Arunachal Pradesh, India** | 2019, November- till date |

**Awards & Honours**

1. IUCAA Visiting Associate from 1st August, 2021 for three years
2. IUCAA Visiting Associate from 1st August, 2017 for three years
3. Qualified Joint CSIR-UGC-NET (Rank-216) in June, 2011
4. UGC-BSR Meritorious Fellowship from 24th March, 2010
5. Qualified Joint CSIR-UGC-NET (Rank-42) in December, 2009
6. State merit scholarship from 2006 to 2008

**Membership of Professional Bodies**

1. Member of “Indian Association for General Relativity and Gravitation” (IAGRG), India (2013-till date)
2. Life member of “The Tensor Society”, India (2012-till date)

**Research Interests**

* I am primarily interested in the dynamical study in and around the Black Hole. I am also interested in the dynamical study on the kinematic and structural evolution of galaxies using stellar kinematics and dark matter distribution. My current topics of research include the in-depth study of modified gravity in higher dimension.

**Research Publications**

1. A novel design and optimization for beam bridge piezoelectric pressure sensor: Meetei, Sanju; Shanjit, H.; Dinamani, Aheibam; *International Journal of Advanced Research in Engineering and Technology,* **2020**, *Volume 11,* 2687-2701*.*
2. ABEP Upper and Lower Bound of BPSK System over OWDP Fading Channels: Suparna, G.; Shanjit, H.; Dinamani, Aheibam*; Advances in Wireless and Mobile Communications*, **2017,** Volume 10, 307-313.
3. Geodesics in the Kerr-Newman anti de Sitter spacetimes: Shanjit, H.; Yugindro, K.; *Advances in Astrophysics*, **2016**, 95-102.
4. Dynamics Of A Test Particle Inside The Kerr-Newman De/Anti De Sitter Black Hole: Shanjit, H.; Yugindro, K*.; Asian Journal of science & innovative research,* **2016,** Volume1**.**
5. Electrical characteristics of (n)Si/(p) PbS heterojunction prepared by chemical bath deposition technique: Hussain, A.; Shanjit, H., Rahman, A.; *Superlattices and Microstructures,* **2015**, 89, 43-52.
6. Motion of a test particle in the Kerr-Newman De/Anti De Sitter Space-time: Shanjit, H.; Yugindro, K.; Ablu, I.; *Int. J. of Astronomy and Astrophysics,* 2014**.** 365-373.

**Book/Book Chapter published**

1. Shanjit, H.; Yugindro, K.: Orbit of a test charged particle inside Kerr-Newman De/Anti De Sitter black hole, in *Recent Trends of Mathematics & its Applications,* Sahin, A., Eastern Book House, India, 2014.

**Research guidance**

**Ph.D scholar**

1. Mr. Chinging Lasa Polo

Topic of research: A Study of Particle Dynamics in the Vicinity of Black Hole

Year of PhD degree: Ongoing

2. Mr. Sagar Sing Goyary

Topic of research: Structural and Kinematic Evolution of Spiral galaxy

Year of PhD degree: Ongoing

3. Mr. Tame Achi

Topic of research: Aspects of Expanding Universe in Modified Gravity

Year of PhD degree: Ongoing

**Course/Conference/Workshop organized**

1. “International Conference on Advances in Nano-optoelectronics and its Application (ICANOPA-2020)”organized by Department of Physics, Rajiv Gandhi University, Arunachal Pradesh

Duration: 12 October-14 October, 2020.

Coordinator

1. IUCAA sponsored workshop on “Introductory Astronomy and Astrophysics” organized by Department of Physics, Rajiv Gandhi University, Arunachal Pradesh

Duration: 24 October-25 October, 2013

Coordinator

**Course/Conference/Workshop etc. attended**

1. presented a talk on “**Accelerating particle around Kerr Newman black hole**” in [North East Meet of Astronomers 2020 (NEMA-VI), November 10-13, 2020, organized by Department of Physics, IIT Guwahati.](http://iitg.ac.in/phy/phyconf/index.php)

2. Participated the **“National Workshop on Recent Advances in Astrophysics and Cosmology"**, organized by IRC, Silguri & IUCAA, Pune during March 17-18, 2017 at the Physics Department, University of North Bengal, Siliguri.

3. Presented a talk on the topic” Hilbert repulsion in the Kerr-Newman spacetimes” in the IUCAA sponsored **“North East Meet of Astronomers (NEMA 2017)”**during October 5-7, 2017 held at St. Anthony College , Shillong and organized by Don Bosco University, Assam.

4. Participated and presented a talk on the IUCAA sponsored **“North East Meet of Astronomers (NEMA 2015)”** during October 26-27, 2015 held at the department of physics, Tezpur University, Tezpur.

5. Participated IUCAA sponsored **“Introductory Workshop in Astronomy and Astrophysics"** organized by Department of Physics, Manipur University, Imphal on February 10-12, 2014.

6. Participated the **“National Conference on Recent Trends of Mathematics and its application"** held at Department of Mathematics, Rajiv Gandhi University, Rono Hills, India during 26 and 27 May, 2014, and presented one paper.

7. Delivered an oral presentation in the **“International Conference on Differential Geometry and Relativity",** organized by the Department of Mathematics, Aligarh Muslim University, Aligarh, during November 20-22, 2012and presented oral talk on Black hole.

8. Attended the TEQIP sponsored under the aegis of MHRD-World bank national level faculty development programme on **“Optical Techniques and Devices in Scientific and Engineering System Applications”** organized by the Department of Physics and Depart-ment of Electrical Engineering, NERIST, Nijurli during 28 October-1 November, 2013.